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APHIS 81-52
September 1988

A LIST OF THE REPORTED HOST PLANTS OF THE SPECIES OF
ANASTREPHA (DIPTERA: TEPHRITIDAE)

PROCUREMENT SECTION
CURRENT SERVICES

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A LIST OF THE REPORTED HOST PLANTS OF THE SPECIES OF
ANASTREPHA (DIPTERA: TEPHRITIDAE)*

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ACKNOWLEDGEMENTS

We are sincerely grateful to Lorene Chang for her patience and assistance in editing this list. R. H. Foote, J. M. Kingsolver, N. E. Woodley (Systematic Entomology Laboratory), R. B. Faden (Department of Botany, Smithsonian Institution), M. Aluja (University of Massachusetts), H. V. Weems, Jr. and C. R. Artaud (Florida Department of Agriculture and Consumer Services) kindly reviewed previous drafts of the manuscript. The contributions by Plant Protection and Quarantine, APHIS, USDA, in preparing this manuscript are greatly appreciated.

U.S. Department of Agriculture
Agricultural Library
Washington, D.C.
March 1979

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INTRODUCTION

Anastrepha Schiner is the largest and most economically important genus of true fruit flies (Diptera: Tephritidae) in the American tropics and subtropics. Approximately 180 valid species are known, including such pests as the Mexican fruit fly (A. ludens (Loew)), the guava fruit fly (A. striata Schiner), the South American fruit fly (A. fraterculus (Wiedemann)), and the West Indian fruit fly (A. obliqua (Macquart)).

In this list, we have attempted to compile all of the published primary host plant records for all species of the genus. The list is intended to serve regulatory entomologists and pest management personnel by indicating the hosts attacked by the major pest species, but we also hope that it will stimulate further research by indicating those species that have been poorly studied. Hosts are unknown for more than one-half of the species of Anastrepha. We will be grateful for notification of corrections or additional records for the list. The senior author will continue to update it and has recently become involved in a project to produce a database for the host plants of all Tephritidae.

The list is organized into four parts. Part 1 lists the currently recognized species of Anastrepha. We follow Steyskal (1977) in including Lucumaphila Stone, Phobema Aldrich, and Pseudodacus Bezzi in Anastrepha. The host genera are listed by family in part 2. Plant nomenclature follows Terrell et al. (1986). The host data are organized in two parts, indexed by Anastrepha species (part 3) and by host genus and species (part 4).

Records for undetermined Anastrepha species are often omitted from the list if determined Anastrepha species were reported for the same host. Similarly, records for undetermined plants are not always included if determined plant species of the same genus were reported for the same Anastrepha species (e.g., there are many records for Anastrepha sp. on Citrus sp. that are not included). The host original distribution code (OD) in part 3, although not totally complete, indicates to the best of our knowledge if the plant is native or exotic to the original range of the fly species, that is, if the plant is likely to have been an original host. In part 4 we include most plant common names reported in the Anastrepha literature, although those differing only in their endings are sometimes omitted.

This list has been compiled from a wide variety of sources and users should be aware that the reliability of the data varies considerably. We have attempted to differentiate primary

records (i.e. reports based on reared specimens) from citations (i.e. data repeated from previous authors), but many authors have not clearly indicated this. It is often difficult to determine the authenticity of records where common names were used or where taxonomic limits were previously unclear. For example, many early records for A. fraterculus were based on misidentifications of A. obliqua. To clarify future host records and permit their confirmation by subsequent workers, we recommend that the following data be included when publishing host information for Tephritidae:

- Complete scientific name of the fly and plant species, including author names;
- Who identified the fly and the plant, or what keys or floras were used;
- Institutions where voucher specimens of both the fly and plant are deposited;
- Complete collection data for each record including the country, state or province, locality, dates of collection and emergence of adults, and collector's name;
- Plant part infested and mode of attack (e.g. feeding in pulp or seed of fruit, mining in stem or leaf, forming stem or flower gall, etc.);
- Infestation level (e.g. number and percentage of fruits infested) or other biological notes.

We also recommend that the word "host" be used only with reared specimens. Unnecessary confusion results when this term is used to refer to trees in which McPhail traps are hung.

Regulatory agencies should note that some plants included in the list have been infested only under artificial laboratory conditions. These plants should not be considered natural hosts for quarantine purposes. When deprived of normal hosts, females of some Anastrepha species will deposit their eggs in almost any fruit available or even in wax spheres. In this way, for example, Baker et al. (1944) forced A. ludens to breed in bananas, cactus fruits, figs, walnuts, calabaza squash, and numerous other fruits that have never been found infested in the field. We have included records of this type in the list because they have sometimes been reported indiscriminately as hosts (e.g. Wasbauer 1972). They are indicated here as laboratory hosts by an "L" in the record

type code (R) in parts 3 and 4. Other records are designated in the code as one of three other types. Field host records (F) are those where the author stated or where we assume that the flies were reared from field collected plants. These are assumed to be natural hosts. Questionable records (Q) are those for which we have doubts about the fly or host identification or if the record was based on rearing. Incidental records (I) are infestations occurring only in the vicinity of high populations on a preferred host. For example, Fischer (1934) bred one specimen of A. grandis from fruit of a guava tree in the middle of a pumpkin field; A. grandis has been commonly reared from various species of Cucurbitaceae, but except for Fischer's record, not from fruit of any other plant family. Similarly, Swanson & Baranowski (1972) found larvae of A. suspensa in tomatoes only near heavy infestations in preferred hosts, and only in a few broken lychee fruits; the hard exocarp of the lychee normally prevents oviposition. Guava is not a normal host of A. grandis, nor is tomato or lychee for A. suspensa. Except for quoting the comments of a few authors in the citations, we have not differentiated between common and rare field hosts (i.e. whether the Anastrepha species is a major pest or only occasionally attacks a particular host), because this information is rarely reported in the literature, is difficult to quantify, and may vary geographically. Quantitative research in this area is needed. For example, A. suspensa and A. obliqua are reported to attack many of the same Myrtaceae and Anacardiaceae hosts, yet A. suspensa more commonly attacks the former, and A. obliqua, the latter, at least in the Antilles (Sein 1933, Whervin 1974). Whether these minor hosts are inconsequential or serve as important reservoirs to maintain a population should be studied further.

Anastrepha species breed almost exclusively in fleshy fruits, although A. manihoti attacks the terminal buds and shoots of yuca (Pena & Bellotti 1977, Caraballo 1981, Jiron & Hedstrom 1988). Larvae of most species apparently develop in the pulp of the fruit, but at least one species of the leptozone group and two species of the serpentina group will also feed on the seeds (Stone 1942a, Korytkowski 1974), and at least one species each of the daciformis and dentata groups feeds only on the seeds (McPhail & Berry 1936, Baker et al. 1944). Many species with an extremely long or slender aculeus (ovipositor) may also be seed feeders, with the aculeus modified to allow oviposition deep within the fruit in or near the seeds instead of near the fruit surface. Because of the higher protein content of the seeds, species feeding on them may differ in their feeding requirements as adults or in their dependence on microorganisms as larvae. Females of the closely related

Toxotrypana curvicauda Gerstaecker, the larvae of which feed at least in part on papaya seeds, do not require a protein source as adults to mature their eggs (Landolt 1984).

The host range of Anastrepha is extremely broad; about 270 plant species in 41 families have been reported as hosts. Much of the diversity is accounted for by a few generalist species. For example, if the hosts of the seven most generalist species (distincta, fraterculus, ludens, obliqua, serpentina, striata, and suspensa) are disregarded, along with the exotic hosts of the other species, only about 75 native host plants are known for the remaining Anastrepha species. These hosts belong to 18 different plant families, however. There must also be many more unknown native hosts because more than one-half of the species of Anastrepha have no known hosts. Previous collecting has concentrated on commercial fruits, many of which are exotic. Over one-third of the reported hosts are not native to the American tropics or subtropics, and over 40 additional records are for New World plants not native to the original range of the Anastrepha species. Extensive collecting and rearing from native wild plants are needed to gain an understanding of the biologically poorly known species.

Host specificity appears to vary widely among Anastrepha species. Some have been reported from only one or several closely related plant species, for example, A. manihoti from yuca, A. interrupta from two species of Schoepfia, and A. pallens from one or two species of Bumelia. Although in some cases this may be an artifact due to limited collecting, species such as those listed above that have been reared several or more times are probably narrowly restricted in their host range. The subtropical A. pallens even appears adapted to the phenology of its Bumelia hosts, as adults have been collected only between December and May, just before and during the peak fruiting time. Other Anastrepha species seem restricted to larger plant taxa, for example, A. grandis, which has been reared from a variety of Cucurbitaceae species. On the other hand, broad generalists such as A. suspensa, A. fraterculus, A. ludens, and A. obliqua all have 60 or more reported hosts, although misidentifications and laboratory and incidental records undoubtedly have inflated these totals. Although even these species have preferred host taxa (e.g. Anacardiaceae for A. obliqua, Sapotaceae for A. serpentina), they shift among a wide variety of host species throughout the year. Other species such as A. pickeli and A. distincta seem to have stronger host preferences, for yuca and Inga species, respectively, but have been reared occasionally from other host plants.

Analysis of the host relationships of Anastrepha is difficult for several reasons. Hosts are unknown for more than one-half of the species, and data is limited or unverified for many others. Our understanding of the phylogenetic relationships within Anastrepha is also limited. Nevertheless, there appears to be a high correlation between host associations and the preliminary hypotheses of phylogenetic relationships indicated in part 1. In this analysis, we include only the native hosts. Although the numerous shifts that have been made to exotic hosts are significant phenomena, especially from an economic standpoint, these plants could not have influenced the evolution of Anastrepha until very recently.

Anastrepha is clearly not old enough to have strictly co-evolved with its hosts. Instead, there appear to have been radiations of some species groups on particular plant taxa. The chiclayae and pseudoparallela subgroups are associated almost exclusively with Passiflora, and the cryptostrepha, daciformis, dentata, robusta, and leptozona groups are similarly mainly associated with the family Sapotaceae. Sapotaceous hosts are not uncommon for the rest of the genus, although forming a smaller percentage of the records; their wide utilization may indicate an early association as hosts for Anastrepha. Some smaller groups of apparently closely related Anastrepha species also have related hosts. For example, A. crebra, A. quararibaeae, and A. greenei have been reared only from Bombacaceae, and A. manihoti and A. pickeli have been bred mainly from yuca.

Part 1

Preliminary Infrageneric Classification of Anastrepha

<u>GROUP</u>	<u>SPECIES</u>
<u>cryptostrepha</u>	<u>tripunctata</u> Wulp <u>cryptostrepha</u> Hendel <u>cordata</u> Aldrich <u>zeteki</u> Greene <u>panamensis</u> Greene <u>margarita</u> Caraballo
<u>daciformis</u>	<u>stonei</u> Steyskal <u>pallens</u> Coquillett <u>daciformis</u> Bezzi <u>macrura</u> Hendel <u>bicolor</u> (Stone)
<u>dentata</u>	<u>dentata</u> (Stone) <u>urichi</u> Greene <u>obscura</u> Aldrich <u>hamata</u> (Loew) <u>sagittifera</u> Zucchi <u>sagittata</u> (Stone) <u>zernyi</u> Lima <u>acidusa</u> (Walker) <u>flavissima</u> Hering
<u>robusta</u>	<u>nigrifascia</u> Stone <u>simulans</u> Zucchi <u>robusta</u> Greene <u>furcata</u> Lima <u>lambda</u> Hendel <u>fenestrata</u> Lutz & Lima <u>pittieri</u> Caraballo <u>speciosa</u> Stone <u>phaeoptera</u> Lima <u>binodosa</u> Stone
<u>punctata</u>	<u>punctata</u> Hendel = <u>minor</u> Lima = <u>hendeli</u> Greene = <u>dangeloi</u> Blanchard = <u>pseudopunctata</u> Blanchard <u>aczeli</u> Blanchard <u>leuderwaldti</u> Lima
<u>schausi</u>	<u>bellicauda</u> Norrbom <u>fernandezi</u> Caraballo <u>hermosa</u> Norrbom <u>schausi</u> Aldrich

<u>GROUP</u>	<u>SPECIES</u>
<u>leptozona</u>	<u>leptozona</u> Hendel <u>costalimai</u> Autuori <u>barnesi</u> Aldrich <u>elongata</u> Fernandez <u>steyskali</u> Korytkowski
<u>mucronota</u>	<u>similis</u> Greene <u>lanceola</u> Stone <u>aphelocentema</u> Stone <u>nunezae</u> Steyskal <u>submunda</u> Lima <u>mucronota</u> Stone <u>debilis</u> Stone <u>edentata</u> Stone <u>insulae</u> Stone <u>minuta</u> Stone <u>greenei</u> Lima <u>crebra</u> Stone <u>quararibae</u> Lima <u>borgmeieri</u> Lima <u>balloui</u> Stone <u>bezzii</u> Lima <u>xanthochaeta</u> Hendel <u>sinvali</u> Zucchi <u>scobinae</u> Stone <u>tubifera</u> (Walker) <u>hastata</u> Stone <u>convoluta</u> Stone <u>atrox</u> Aldrich = <u>barandiaranae</u> Korytkowski & Ojeda <u>galbina</u> Stone <u>hambletoni</u> Lima <u>megacantha</u> Zucchi <u>parallela</u> (Wiedemann) <u>undosa</u> Stone <u>loewi</u> Stone <u>integra</u> (Loew) <u>kuhlmanni</u> Lima <u>elegans</u> Blanchard
<u>chiclayae</u>	<u>chiclayae</u> Greene <u>dissimilis</u> Stone = <u>correntina</u> Blanchard <u>pastranai</u> Blanchard <u>munda</u> Schiner <u>anduzei</u> Stone <u>limae</u> Stone <u>dryas</u> Stone <u>ethalea</u> (Walker)

Part 1

Preliminary Infrageneric Classification of Anastrepha (con.)

<u>GROUP</u>	<u>SPECIES</u>
<u>pseudoparallela</u>	<u>pseudoparallela</u> (Loew) <u>townsendi</u> Greene <u>consobrina</u> (Loew) = <u>zikani</u> Lima <u>amnis</u> Stone
<u>benjamini</u>	<u>benjamini</u> Lima = <u>dicessa</u> Stone <u>pallidipennis</u> Greene <u>curitis</u> Stone <u>superflua</u> Stone <u>gigantea</u> Stone
<u>grandis</u>	<u>grandis</u> (Macquart) = <u>schineri</u> Hendel = <u>latifasciata</u> Hering <u>atrigona</u> Hendel <u>shannoni</u> Stone
<u>striata</u>	<u>striata</u> Schiner <u>bistrigata</u> Bezzi <u>ornata</u> Aldrich
<u>serpentina</u>	<u>ocresia</u> (Walker) = <u>tricincta</u> Loew <u>anomala</u> Stone <u>pulchra</u> Stone <u>serpentina</u> (Wiedemann) = <u>vittithorax</u> Macquart
<u>ramosa</u>	<u>ramosa</u> Stone <u>subramosa</u> Stone
<u>spatulata</u>	<u>spatulata</u> Stone <u>interrupta</u> Stone <u>infuscata</u> Shaw <u>triangulata</u> Shaw <u>distans</u> Hendel <u>umbrosa</u> Blanchard <u>alveatoides</u> Blanchard <u>alveata</u> Stone <u>manihoti</u> Lima <u>pickeli</u> Lima <u>montei</u> Lima = <u>procurvata</u> Blanchard

<u>GROUP</u>	<u>SPECIES</u>
<u>fraterculus</u>	<u>macra</u> Stone <u>tenella</u> Zucchi <u>distincta</u> Greene = <u>silvai</u> Lima <u>minensis</u> Lima = <u>extensa</u> Stone <u>schultzi</u> Blanchard = <u>inca</u> Stone = <u>obliteratella</u> Blanchard <u>barbiellinii</u> Lima <u>ludens</u> (Loew) <u>lathana</u> Stone <u>bahiensis</u> Lima <u>amita</u> Zucchi <u>antunesi</u> Lima <u>perdita</u> Stone <u>canalis</u> Stone <u>compressa</u> Stone <u>turpiniae</u> Stone <u>zenildae</u> Zucchi <u>irretita</u> Stone <u>zuelaniae</u> Stone <u>obliqua</u> (Macquart) = <u>mombinpraeoptans</u> Sein = <u>trinidadensis</u> Greene = <u>ligata</u> Lima <u>suspensa</u> (Loew) = <u>unipuncta</u> Sein = <u>longimacula</u> Greene <u>fraterculus</u> (Wiedemann) = <u>mellea</u> Walker = <u>unicolor</u> Loew = <u>frutalis</u> Weyenberg = <u>peruviana</u> Townsend = <u>soluta</u> Bezzi = <u>braziliensis</u> Greene = <u>costarukmannii</u> Capoor = <u>scholae</u> Capoor = <u>pseudofraterculus</u> Capoor <u>lambayecae</u> Korytkowski & Ojeda <u>fischeri</u> Lima <u>turica</u> Blanchard <u>matertela</u> Zucchi <u>sororcula</u> Zucchi <u>reichardti</u> Zucchi

<u>GROUP</u>	<u>SPECIES</u>
Unplaced Species	<u>doryphoros</u> Stone <u>flavipennis</u> Greene <u>buscki</u> Stone <u>fractura</u> Stone <u>bondari</u> Lima <u>tumida</u> Stone <u>lutea</u> Stone <u>sylvicola</u> Knab <u>quiinae</u> Lima <u>teretis</u> Stone <u>fumipennis</u> Lima <u>bivittata</u> (Macquart) <u>nascimentoi</u> Zucchi <u>tecta</u> Zucchi <u>rheediae</u> Stone <u>lutzi</u> Lima <u>passiflorae</u> Greene <u>barrettoii</u> Zucchi <u>palae</u> Stone <u>repanda</u> Blanchard <u>rosilloi</u> Blanchard <u>duckei</u> Lima <u>acris</u> Stone <u>caudata</u> Stone <u>guianae</u> Stone <u>parishi</u> Stone <u>teli</u> Stone <u>haywardi</u> Blanchard <u>belenensis</u> Zucchi <u>nigripalpis</u> Hendel <u>sodalis</u> Stone <u>mixta</u> Zucchi <u>conjuncta</u> Hendel <u>cruzi</u> Lima <u>mburucuyae</u> Blanchard <u>irradiata</u> Blanchard

Part 2
Checklist of Host Plant Genera

<u>HOST FAMILY</u>	<u>HOST GENERA</u>
Anacardiaceae	<u>Anacardium</u> <u>Mangifera</u> <u>Spondias</u>
Annonaceae	<u>Annona</u>
Apocynaceae	<u>Carissa</u> <u>Lacmellea</u> <u>Thevetia</u>
Araliaceae	<u>Trevesia</u>
Arecaceae	<u>Phoenix</u>
Bignoniaceae	<u>Codmania</u> <u>Parmentiera</u>
Bombacaceae	<u>Quararibea</u>
Boraginaceae	<u>Cordia</u>
Cactaceae	<u>Hylocereus</u> <u>Lemaireocereus</u> <u>Opuntia</u>
Canellaceae	<u>Canella</u>
Caricaceae	<u>Carica</u>
Clusiaceae	<u>Garcinia</u> <u>Mammea</u> <u>Platonia</u> <u>Rheedia</u>
Combretaceae	<u>Terminalia</u>
Cucurbitaceae	<u>Citrullus</u> <u>Cucumis</u> <u>Cucurbita</u> <u>Lagenaria</u> <u>Momordica</u>
Ebenaceae	<u>Diospyros</u>
Elaeocarpaceae	<u>Muntingia</u>

Part 2

Checklist of Host Plant Genera (con.)

<u>HOST FAMILY</u>	<u>HOST GENERA</u>
Euphorbiaceae	<u>Alchornea</u> <u>Bischofes</u> <u>Drypetes</u> <u>Hippomane</u> <u>Manihot</u> <u>Phyllanthus</u>
Fabaceae	<u>Acacia</u> <u>Geoffraea</u> <u>Indigofera</u> <u>Inga</u> <u>Phaseolus</u>
Flacourtiaceae	<u>Ancistrothyrsus</u> <u>Dovyalis</u> <u>Flacourtia</u> <u>Zuelania</u>
Humiriaceae	<u>Endopleura</u>
Juglandaceae	<u>Juglans</u>
Lauraceae	<u>Persea</u>
Malpighiaceae	<u>Byrsonima</u> <u>Malpighia</u>
Moraceae	<u>Brosimum</u> <u>Ficus</u> <u>Helicostylis</u>
Musaceae	<u>Musa</u>
Myrtaceae	<u>Britoa</u> <u>Campomanesia</u> <u>Eugenia</u> <u>Feijoa</u> <u>Jambosia</u> <u>Myrcia</u> <u>Myrcianthes</u> <u>Myrciaria</u> <u>Pimenta</u> <u>Pseudanmomis</u> <u>Psidium</u> <u>Syzygium</u>
Olacaceae	<u>Schoepfia</u> <u>Ximenia</u>

Part 2
Checklist of Host Plant Genera (con.)

<u>HOST FAMILY</u>	<u>HOST GENERA</u>
Oxalidaceae	<u>Averrhoa</u>
Passifloraceae	<u>Passiflora</u>
Polygonaceae	<u>Coccoloba</u>
Punicaceae	<u>Punica</u>
Quinaceae	<u>Quina</u>
Rosaceae	<u>Chrysobalanus</u>
	<u>Crataegus</u>
	<u>Cydonia</u>
	<u>Eriobotrya</u>
	<u>Fragaria</u>
	<u>Malus</u>
	<u>Prunus</u>
	<u>Pyrus</u>
	<u>Rubus</u>
Rubiaceae	<u>Coffea</u>
	<u>Genipa</u>
Rutaceae	<u>Atalantia</u>
	<u>Casimiroa</u>
	<u>Citrofortunella</u>
	<u>Citrus</u>
	<u>Clausena</u>
	<u>Fortunella</u>
	<u>Murraya</u>
	<u>Sargentia</u>
	<u>Severinia</u>
Sapindaceae	<u>Triphasia</u>
	<u>Blighia</u>
	<u>Litchi</u>
	<u>Talisia</u>
Sapotaceae	<u>Bumelia</u>
	<u>Chrysophyllum</u>
	<u>Manilkara</u>
	<u>Mastichodendron</u>
	<u>Micropholis</u>
	<u>Mimusops</u>
	<u>Pouteria</u>
	<u>Synsepalum</u>

Part 2
Checklist of Host Plant Genera (con.)

<u>HOST FAMILY</u>	<u>HOST GENERA</u>
Solanaceae	<u>Capsicum</u> <u>Cyphomandra</u> <u>Lycopersicon</u> <u>Physalis</u> <u>Solanum</u>
Staphylaceae	<u>Turpinia</u>
Sterculiaceae	<u>Sterculia</u> <u>Theobroma</u>
Vitaceae	<u>Vitis</u>

Part 3

Hosts of Anastrepha by Anastrepha Species

Record types (R) are coded as follows: F = field infested host, L = laboratory infested host, I = probable incidental infestation, Q = questionable record. Host original distributions (OD) are coded as N = host native to original range of Anastrepha species, or as E = host exotic to original range of Anastrepha species, with a "?" for questionable data. Citations preceded by an "*" are primary records, that is, the cited author examined reared specimens not cited by a previous author. Those preceded by a "†" are citations of previous authors or at least are based on previously cited specimens. A "-" indicates this information is unknown. The country from which the record originated is listed in parentheses following the citation, where that information is available. The country of origin for the records of Greene (1934) and Stone (1942a) was determined in part by examination of specimens in the U.S. National Museum of Natural History.

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
sp.	Anacardium occidentale	F	N
	- Guagliumi 1966 (Venezuela)		
	* Malavasi et al. 1980 (Brazil)		
	Annona muricata	F	N
	* Malavasi et al. 1980 (Brazil)		
	Byrsonima crassifolia	F	-
	* Eskafi & Cunningham 1987 (Guatemala)		
	Chrysobalanus icaco	F	N
	- Guagliumi 1966 (Venezuela)		
	Citrofortunella x mitis	F	E
	* Malavasi et al. 1980 (Brazil; host as Citrus madurensis Lour.)		
	* Eskafi & Cunningham 1987 (Guatemala; host as Citrus mitis)		
	Citrus x limonia	F	E
	* Malavasi et al. 1980 (Brazil)		
	Citrus reticulata	F	E
	* Malavasi et al. 1980 (Brazil; host as C. deliciosa Tien)		
	Diospyros kaki	F	E
	- Guagliumi 1966 (Venezuela)		
	Endopleura uchi	F	N
	* Malavasi et al. 1980 (Brazil)		
	Feijoa sellowiana	F	E
	* Fernandez de Araoz & Nasca 1984 (Argentina)		
	Indigofera tinctoria	F	E
	- Guagliumi 1966 (Venezuela)		

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
sp. (con.)	Inga cinnamomea * Malavasi et al. 1980 (Brazil)	F	N
	Juglans australis * Fernandez de Araoz & Nasca 1984 (Argentina)	F	-
	Lycopersicon esculentum * Malavasi et al. 1980 (Brazil)	F	E
	Myrciaria cauliflora * Malavasi et al. 1980 (Brazil)	F	N
	Parmentiera aculeata * Eskafi & Cunningham 1987 (Guatemala; host as P. edulis DC.)	F	-
	Passiflora caerulea * Fernandez de Araoz & Nasca 1984 (Argentina)	F	-
	Platonia esculenta * Malavasi et al. 1980 (Brazil; host as P. insignis Mart.)	F	N
	Prunus domestica * Malavasi et al. 1980 (Brazil) * Fernandez de Araoz & Nasca 1984 (Argentina) * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Quararibea magnifica - Guagliumi 1966 (Venezuela; attacking flower base)	F	N
	Rheedia macrophylla * Malavasi et al. 1980 (Brazil)	F	N
	Solanum sp. * Fernandez de Araoz & Nasca 1984 (Argentina)	F	N
	Solanum hirtum - Guagliumi 1966 (Venezuela; fly possibly misidentification of Zonosemata scutellata (Hendel))	Q	N
	Spondias tuberosa * Malavasi et al. 1980 (Brazil)	F	-
	Syzygium samarangense - Guagliumi 1966 (Venezuela; host as Eugenia javanica Lam.)	F	E
	Talisia olivaeformis - Guagliumi 1966 (Venezuela)	F	N

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
acris Stone	Hippomane mancinella * Fernandez 1953 (Venezuela) † Guagliumi 1966 * Caraballo 1981 (Venezuela)	F	N
alveata Stone	Myrtaceae sp. * Stone 1942a (Venezuela) † Fernandez 1953 † Blanchard 1961 † Caraballo 1981	F	-
alveatoides Blanchard	Citrus sp. - Rosillo 1953 (Argentina; fly probably not reared)	Q	E
anomala Stone	Unknown host family * Caraballo 1981 (Venezuela; host as "chirica")	F	-
	Lacmellea panamensis * Stone 1942a (Panama; host as Zschokkea panamensis; fly reared from seeds)	F	N
antunesi Lima	Dovyalis hebecarpa * Caraballo 1981 (Venezuela)	F	E
	Genipa americana * Lima 1938a (Brazil) † Stone 1942a † Fernandez 1953 - Korytkowski & Ojeda 1968 † Zucchi 1978	F	N
	Manilkara zapota * Malavasi et al. 1980 (Brazil; host as Achras zapota L.)	F	N
	Psidium guajava * Malavasi et al. 1980 (Brazil)	F	N
	Spondias mombin * Stone 1942a (Panama, Trinidad) † Fernandez 1953 - Korytkowski & Ojeda 1968 † Zucchi 1978 * Malavasi et al. 1980 (Brazil; host as S. lutea L.) * Caraballo 1981 (Venezuela)	F	N

Part 3

Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
antunesi (con.)	Spondias purpurea - Stone 1942a † Fernandez 1953 - Korytkowski & Ojeda 1968 * Zucchi 1978 (Brazil) * Malavasi et al. 1980 (Brazil)	F	N
aphelo- centema Stone	Pouteria hypoglaucia * Stone 1942a (Mexico; host as "socavitaе, Lucuma sp. (?)") * Baker et al. 1944 (Mexico, host as "socavite, sp. nr. Lucuma standleyana Pittier") * Bush 1962 (Mexico; host as "socavite, Lucuma standleyana Pittier")	F	N
bahiensis Lima	Coffea arabica * Nunez 1981 (Colombia)	F	E
	Eugenia variabilis * Lima 1937 (Brazil; host as "guarobeira") † Stone 1942a (host as "guarobeira") † Stone 1942b † Zucchi 1978 (host as "guarobeira")	F	N?
	Helicostylis poeppigiana * Lima 1937 (Brazil; host as "amora preta") † Lima 1938a (Brazil; host as Helixanthostylis poppigiana (misspelling)) † Stone 1942a † Zucchi 1978 (host as H. poeppigiana and "amora preta")	F	N
	Juglans neotropica * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969	F	N
	Juglans regia - Korytkowski & Ojeda 1968 (Peru (?))	F	E
balloui Stone	Sterculia apetala * Fernandez 1953 (Venezuela) † Guagliumi 1966 * Caraballo 1981 (Venezuela)	F	N
	Terminalia catappa - Guagliumi 1966 (Venezuela; Caraballo (1981) could not con- firm this record. It is possibly based on Stone's (1942a) records from foliage, but Guagliumi also cites it in his parasite list (p. 232), suggesting that it was reared)	F	E

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
barnesi Aldrich	Pouteria torta * Zucchi 1978 (Brazil) † Malavasi et al. 1980	F	N
benjamini Lima	Pouteria sp. * Lima 1938b (Brazil; host as "guapeba branca") † Stone 1942a (host as "guapeba branca") † Zucchi 1978 (host as "guapeba branca")	F	N
bistrigata Bezzi	Mangifera indica - Korytkowski & Ojeda 1968 (fly probably not reared; Korytkowski & Ojeda 1969 say only that it is probably attracted)	Q	E
	Psidium guajava * Lima 1934 (Brazil; host as "goiaba") * Stone 1942a (Brazil) - Korytkowski & Ojeda 1968 (Peru (?)) * Zucchi 1978 (Brazil) * Malavasi et al. 1980 (Brazil)	F	N
	Psidium guineense * Bezzi 1919 (Brazil; host as "araxa") † Lima 1934 (host as P. araca Raddi) † Stone 1942a † Zucchi 1978 (host as P. guineense and P. araca)	F	N
bondari Lima	Unknown host family * Lima 1937 (Brazil; host as "alandy") † Stone 1942a (host as "alandy")	F	N
	Unknown host family * Lima 1937 (Brazil; host as "amora de leite") † Stone 1942a (host as "amora de leite")	F	N
	Eugenia variabilis * Lima 1937 (Brazil; host as "guarobeira") † Stone 1942a (host as "guarobeira") † Stone 1942b	F	N?
	Pouteria sp. * Lima 1934 (Brazil; host as Lucuma sp.) * Lima 1937 (Brazil; host as Lucuma sp.) † Stone 1942a (host as Lucuma sp.)	F	-

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
canalis Stone	Turpinia occidentalis * Stone 1942a (Panama; host as T. paniculata Vent.) † Fernandez 1953 (host as T. paniculata Vent.)	F	N
chiclayae Greene	Anacardium occidentale - Korytkowski & Ojeda 1968 (Peru (??))	Q	N
	Citrus sp. - Rosillo 1953 (Argentina; fly probably not reared)	Q	E
	Cydonia oblonga - Korytkowski & Ojeda 1968 (Peru (??))	Q	E
	Eugenia sp. - Korytkowski & Ojeda 1968 (Peru; host as "palillo")	Q	N?
	Mangifera indica * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969	Q	E
	Passiflora sp. * Baker et al. 1944 (Mexico) † Wasbauer 1972	F	N
	Prunus persica - Rosillo 1953 (Argentina; host as "duraznero"; fly probably not reared)	Q	E
	Psidium guajava * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969	Q	N
	Spondias sp. - Rosillo 1953 (Argentina; host as "ciruelo"; fly probably not reared)	Q	N?
	Spondias purpurea - Korytkowski & Ojeda 1968 (Peru (??))	Q	N
consobrina (Loew)	Passiflora quadrangularis * Lima 1930a (Brazil; host as P. edulis Sims) † Greene 1934 (host as P. edulis Sims) † Lima 1934 (Brazil; fly as zikani Lima) † Stone 1942a (host as P. edulis Sims and P. quadrangularis) † Blanchard 1961 (host as P. edulis Sims and P. quadrangularis) † Zucchi 1978 (fly as zikani Lima)	F	N

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
crebra Stone	Quararibea asterolepis * Stone 1942a (Panama)	F	N
daciformis Bezzi	Citrus sp. - Rosillo 1953 (Argentina; fly probably not reared) † Blanchard 1961	Q	E
	Eugenia sp. † Blanchard 1961 (cites Rosillo 1953, but record not in that paper)	Q	N?
	Prunus persica - Hayward 1960 † Blanchard 1961 (host as "duraznero")	F	E
	Psidium sp. - Hayward 1960 † Blanchard 1961 (host as "guayabo")	F	N
dissimilis Stone	Passiflora sp. * Stone 1942b (Argentina) † Blanchard 1961 * Zucchi 1978 (Brazil) * Malavasi et al. 1980 (Brazil)	F	N
distincta Greene	Annona glabra * Stone 1942a (Panama)	L	N
	Annona muricata - Korytkowski & Ojeda 1968 (Peru (?))	Q	N
	Capsicum annum * Stone 1942a (Panama; host as C. frutescens var. grossum) * Baker et al. 1944 (Mexico; host as "chili pepper")	L	N
	Chrysophyllum cainito - Stone 1942a † Fernandez 1953 - Korytkowski & Ojeda 1968 † Zucchi 1978	F	E
	Citrus aurantiifolia * Baker et al. 1944 (Mexico; host as "lima grande")	L	E
	Citrus sinensis * Aluja & Martinez 1985 (Mexico; not listed as host by Aluja et al. 1987)	Q	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
distincta (con.)	Dovyalis hebecarpa * Stone 1942a (Panama)	L	E
	Eugenia capsium - Zucchi 1978 (probably error or citation of a previous record; plant name doubtful, not listed in Index Kewensis)	Q	-
	Eugenia nesiotica * Stone 1942a (Panama) † Fernandez 1953	F	N
	Inga sp. * Briceno 1975 (Venezuela; fly as fraterculus Wiedemann) * Briceno 1979 (Venezuela) * Caraballo 1981 (Venezuela)	F	N
	Inga affinis - Guagliumi 1966 (Venezuela)	F	N
	Inga edulis * Stone 1942a (Panama) * Malavasi et al. 1980 (Brazil)	F	N
	Inga feuillei * Stone 1942a (Peru) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969	F	N
	Inga goldmanii - Stone 1942a	F	N
	Inga hayesii - Stone 1942a	F	N
	Inga inicuil * Baker et al. 1944 (Mexico; host as "jinicuil") * Bush 1962 (Mexico)	F	N
	Inga lushnathiana * Lima 1934 (Brazil; fly as silvai Lima) † Stone 1942a	F	N
	Inga marginata * Fernandez 1953 (Venezuela) † Guagliumi 1966 † Caraballo 1981	F	N

ANASTREPHA	HOST	R	OD
<i>distincta</i> (con.)	<i>Inga mitchelliana</i>	F	N
	* Aluja & Martinez 1985 (Mexico)		
	† Aluja et al. 1987		
	* Eskafi & Cunningham 1987 (Guatemala; fly as <i>fraterculus</i>)		
	<i>Inga nobilis</i>	F	N
	* Nunez 1981 (Colombia)		
	<i>Inga paterna</i>	F	N
	* Aluja et al. 1987 (Mexico)		
	* Eskafi & Cunningham 1987 (Guatemala; fly as <i>fraterculus</i>)		
	<i>Inga pilosula</i>	F	N
	* Stone 1942a (Guyana; host as <i>I. setifera</i> DC.)		
	<i>Inga punctata</i>	F	N
	* Stone 1942a (Panama)		
	<i>Inga wrightiana</i>	F	N
	* Aluja et al. 1987 (Mexico; host as <i>I. lauriana</i> Willd. (misspelling of <i>laurina</i>))		
	<i>Inga zapindoides</i>	F	N
	* Stone 1942a (Panama; host as <i>I. panamensis</i>)		
	<i>Inga spectabilis</i>	F	N
	* Nunez 1981 (Colombia)		
	<i>Inga spuria</i>	F	N
	* Stone 1942a (Panama)		
	* Aluja & Martinez 1985 (Mexico)		
	† Aluja et al. 1987		
	<i>Inga weberbaueri</i>	F	N
	— Korytkowski & Ojeda 1968 (Peru (?))		
	<i>Malus domestica</i>	L	E
	* Baker et al. 1944 (Mexico; host as "apple")		
	<i>Mangifera indica</i>	F	E
	* Stone 1942a (Peru; fly laboratory reared in Panama)		
	† Fernandez 1953		
	— Guagliumi 1966 (Venezuela (?); probably citation of Fernandez 1953)		
	* Korytkowski & Ojeda 1968 (Peru)		
	† Korytkowski & Ojeda 1969		
	† Zuehl 1978		
	† Caraballo 1981		
	* Aluja & Martinez 1985 (Mexico; questionable record, not listed as a host by Aluja et al. 1987)		

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>P</u>	<u>GD</u>
distincta (con.)	<p><i>Pouteria campechiana</i> * Baker et al. 1944 (Mexico; host as "yellow sapote")</p> <p><i>Solanum lanceifolium</i> * Stone 1942a (Panama; host as <i>S. donnell-smithii</i> Coult.)</p>	L	H
duckei Lima	<p><i>Ancistrothyrsus tessmanni</i> * Lima 1934 (Brazil) † Stone 1942a † Zucchi 1978</p>	P	-
ethalea (Walker)	<p><i>Passiflora laurifolia</i> * Stone 1942a (Trinidad) † Blanchard 1961 † Zucchi 1978</p> <p><i>Passiflora quadrangularis</i> * Stone 1942a (Trinidad) † Blanchard 1961 † Zucchi 1978</p>	P	H
flavipennis Greene	<p><i>Mangifera indica</i> * Stone 1942b (Panama) † Blanchard 1961</p> <p><i>Manilkara zapota</i> * Stone 1942b (Panama; host as <i>Achras sapota</i> L. (misspelling)) † Blanchard 1961</p> <p><i>Pouteria stylosa</i> * Stone 1942b (Panama; host as <i>Labatia standleyana</i> (Pittier)) † Blanchard 1961</p>	L	P
fraterculus (Wiedemann)	<p>Unknown host family * Lima 1937 (Brazil; host as "amora de leite"; fly as var. <i>soluta</i>)</p> <p>Unknown host family † Lima 1934 (Brazil; host as "cabeluda")</p> <p>Unknown host family * Aluja et al. 1987 (Mexico; host as "grosella")</p>	P	H

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Annonaceae sp. * Lima 1937 (Brazil; host as "pinha vermelha de leite"; fly as var. soluta)	F	N
	Myrtaceae sp. * Korytkowski & Ojeda 1968 (Peru; host as "porongo")	F	N?
	Sapotaceae sp. * Lima 1937 (Brazil; host as "bacupary mirim"; fly as var. soluta)	F	N
	Alchornea latifolia * Aluja & Martinez 1985 (Mexico; host as "pozol, Alchornea sp.") † Aluja et al. 1987	F	-
	Anacardium occidentale * Eskafi & Cunningham 1987 (Guatemala)	F	-
	Annona cherimola * Rust 1918 (Argentina) † Pierce 1918 (fly as peruviana Townsend; questionable record, cites Townsend 1913, who doesn't specifically state that this is a host) * Greene 1934 (Peru; fly as peruviana Townsend) † Lima 1934 * Stone 1942a (Argentina, Peru) * Korytkowski & Ojeda 1968 † Korytkowski & Ojeda 1969 * Nunez 1981 (Colombia)	F	N
	Annona glabra * Stone 1942a (Panama)	L	N
	Annona humboldtii † Pierce 1918 (host as A. humboldtiana) † Lima 1934 (host as A. humboldtiana)	F	N
	Annona muricata - Korytkowski & Ojeda 1968 (Peru (??))	F	N
	Annona reticulata - Korytkowski & Ojeda 1968 (fly misidentified as suspensa (Loew), not stated whether based on specimens reared in Peru or a citation of a previous record for suspensa)	Q	N
	Annona squamosa * Nunez 1981 (Colombia)	F	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Averrhoa carambola * Malavasi et al. 1980 (Brazil)	F	E
	Campomanesia obscura * Malavasi et al. 1980 (Brazil)	F	N
	Campomanesia xanthocarpa * Malavasi et al. 1980 (Brazil)	F	N
	Chrysophyllum cainito - Korytkowski & Ojeda 1968 (fly misidentified as suspensa (Loew), not stated whether based on specimens reared in Peru or a citation of a previous record for suspensa)	Q	E
	Citrus aurantiifolia - Korytkowski & Ojeda 1968 (Peru (??))	Q	E
	Citrus aurantium † Lima 1934 * Korytkowski & Ojeda 1968 (Peru; fly as fraterculus and suspensa (Loew)) † Korytkowski & Ojeda 1969 * Briceno 1975 (Venezuela) * Malavasi et al. 1980 (Brazil)	F	E
	Citrus limetta * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Citrus maxima * Rust 1918 (Argentina; host as "pomelo, C. decumana") † Lima 1934 (host as C. decumana) * Korytkowski & Ojeda 1968 (Peru; host as C. grandis (L.) Osbeck; fly as fraterculus and suspensa (Loew)) † Korytkowski & Ojeda 1969 (host as C. grandis) * Malavasi et al. 1980 (Brazil; host as C. grandis (L.) Osbeck)	F	E
	Citrus x paradisi * Kisliuk & Cooley 1933 (Brazil; host as "grapefruit") * Greene 1934 (Brazil; host as "grapefruit"; fly as braziliensis Greene and fraterculus) - Stone 1942a (host as C. grandis (L.) Osbeck, "grapefruit") * Caraballo 1981 (Venezuela) * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Citrus reticulata * Rust 1918 (Argentina; host as "tangerine, C. nobilis") † Lima 1934 (host as C. nobilis Lour.)	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Citrus sinensis * Stone 1942a (Venezuela) * Ballou 1945 (Venezuela) † Fernandez 1953 † Guagliumi 1966 * Korytkowski & Ojeda 1968 (Peru; fly as fraterculus and suspensa (Loew)) † Korytkowski & Ojeda 1969 * Malavasi et al. 1980 (Brazil) † Caraballo 1981 * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Coffea sp. † Pierce 1918 (host as "coffee") * Caraballo 1981 (Venezuela)	F	E
	Coffea arabica † Lima 1934 * Stone 1942a (Colombia) * Malavasi et al. 1980 (Brazil) * Nunez 1981 (Colombia) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987	F	E
	Coffea liberica - Guagliumi 1966 (Venezuela (?); possibly citation of records of arabica L.) † Caraballo 1981	F	E
	Crataegus sp. * Aluja et al. 1987 (Mexico)	F	N
	Cydonia oblonga * Stone 1942a (Mexico, Peru) - Guagliumi 1966 (Venezuela (?); possibly citation of previous records) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 † Caraballo 1981	F	E
	Diospyros kaki - Lutz & Lima 1918 † Pierce 1918 † Lima 1934 * Malavasi et al. 1980 (Brazil)	F	E
	Dovyalis hebecarpa * Stone 1942a (Panama)	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Eriobotrya japonica † Lima 1934 * Stone 1942a (Peru) * Fernandez 1953 (Venezuela) † Guagliumi 1966 - Korytkowski & Ojeda 1968 * Briceno 1975, 1979 (Venezuela) * Malavasi et al. 1980 (Brazil) * Caraballo 1981 (Venezuela) * Aluja & Martinez 1985 (Mexico)	F	E
	Eugenia spp. † Pierce 1918 (host as Phytocalyx sp.) † Lima 1934 (host as Phytocalyx sp.) * Korytkowski & Ojeda 1968 (Peru; host as "palillo")	F	N?
	Eugenia brasiliensis * Stone 1942a (Brazil)	F	N
	Eugenia coloradensis * Stone 1942b (Panama)	F	N
	Eugenia tomentosa † Wasbauer 1972 (host may refer to E. tomentosa Cambess. or Myrcia tomentosa Aubl.; cites Lima 1934, but not listed by that author)	Q	N
	Eugenia uniflora - Greene 1934 (fly as soluta Bezzi) † Lima 1934 (host as "pitanga") * Stone 1942a (Brazil, Panama; preferred host) * Malavasi et al. 1980 (Brazil) * Aluja et al. 1987 (Mexico; host as Syzygium uniflora)	F	N
	Eugenia uvalha * Malavasi et al. 1980 (Brazil)	F	N
	Feijoa sellowiana * Rust 1918 (Argentina)	F	-
	Ficus carica * Rust 1918 (Argentina) † Lima 1934	F	E
	Fortunella japonica * Rust 1918 (Argentina; host as Citrus japonica) † Lima 1934 (host as Citrus japonica)	F	E
	Fragaria vesca † Lima 1934	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Inga edulis * Malavasi et al. 1980 (Brazil)	F	N
	Juglans neotropica * Korytkowski & Ojeda 1969 (Peru)	F	N
	Juglans regia - Korytkowski & Ojeda 1968 (Peru (?))	F	E
	Lycopersicon esculentum - Korytkowski & Ojeda 1968 (Peru (?); host as L. sculentum (misspelling))	Q	N
	Malpighia sp. * Malavasi et al. 1980 (Brazil)	F	E
	Malus domestica † Lima 1934 (host as Pyrus malus) * Ballou 1945 (Venezuela; host as Malus silvestris Mill. (misidentification according to Caraballo 1981) † Fernandez 1953 (host as Malus silvestris Mill.) † Guagliumi 1966 (host as Pyrus malus) † Wasbauer 1972 (host as Malus sylvestris) * Briceno 1979 (Venezuela; host as Pyrus malus) * Malavasi et al. 1980 (Brazil; host as Pyrus malus) * Caraballo 1981 (Venezuela; host as Pyrus malus)	F	E
	Malus pumila - Stone 1942a	L	-
	Mangifera indica † Pierce 1918 * Stone 1942a (Brazil, Mexico, Panama, Peru) - Guagliumi 1966 (Venezuela (?); possibly citation of previous record) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 (Peru) * Malavasi et al. 1980 (Brazil) * Nunez 1981 (Colombia) * Aluja et al. 1987 (Mexico) * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Manilkara zapota * Stone 1942a (Panama; host as Achras zapota L.) - Korytkowski & Ojeda 1968 (Peru (?); host as Achras zapota L.) * Nunez 1981 (Colombia; host as Achras zapota)	F	N
	Mastichodendron capiri var. tempisque * Aluja et al. 1987 (Mexico)	F	-

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Myrcia jaboticaba † Lima 1934 † Wasbauer 1972 (host as Myrciaria sp.)	F	N
	Myrcia popayanensis * Olarte 1980 (Colombia)	F	-
	Passiflora edulis * Olarte 1980 (Colombia)	Q	-
	Persea americana * Rust 1918 (Argentina) † Lima 1934 † Ebeling 1959	F	N
	Phyllanthus acidus - Stone 1942a	L	E
	Pouteria obovata * Korytkowski & Ojeda 1969 (Peru; host as Lucuma obovata)	F	N
	Prunus sp. - Rosillo 1953 (Argentina; host as "damasco"; fly possibly not reared) * Malavasi et al. 1980 (Brazil; host as "ameixa preta")	F	E
	Prunus armeniaca * Rust 1918 (Argentina) † Lima 1934	F	E
	Prunus capuli * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Prunus persica * Townsend 1913 (Peru; host as "peach"; fly as peruviana Townsend) - Lutz & Lima 1918 † Pierce 1918 (host as "peach, Amygdalus persica") † Greene 1934 (Peru; host as "peach"; fly as peruviana Townsend) † Lima 1934 - Stone 1942a (Brazil, Mexico) * Baker et al. 1944 (Mexico) - Rosillo 1953 (Argentina; host as "duraznero"; fly possibly not reared) - Guagliumi 1966 (Venezuela) - Korytkowski & Ojeda 1968 (Peru (??)) * Briceno 1975, 1979 (Venezuela) * Malavasi et al. 1980 (Brazil) * Caraballo 1981 (Venezuela)	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Prunus salicina † Pierce 1918 (probably based on Ihering 1901 (not seen); host as "Japanese plum, Prunus salicina"; Lima 1934, citing Ihering as well as other authors, identifies "ameixa japonesa" as Eriobotrya japonica) † Wasbauer 1972	Q	-
	Psidium cattleianum * Rust 1918 (Argentina; host as P. cattleyanum (misspelling)) † Lima 1934 (host as P. cattleyanum (misspelling))	F	N
	Psidium cattleianum var. littorale * Eskafi & Cunningham 1987 (Guatemala; host as P. littorale)	F	-
	Psidium guajava * Isaac 1905 (Mexico; fly as acidusa (Walker)) * Herrera 1908 (Mexico; host as "guava"; fly as acidusa (Walker)) * Townsend 1913 (Peru; host as "guava"; fly as peruviana Townsend) - Lutz & Lima 1918 † Pierce 1918 - Emmart 1933 (Mexico) † Lima 1934 * Stone 1942a (Brazil, Mexico, Panama, Peru) * Baker et al. 1944 (Mexico) * Fernandez 1953 (Venezuela) † Guagliumi 1966 * Korytkowski & Ojeda 1968 (Peru; fly as fraterculus and suspensa (Loew)) † Korytkowski & Ojeda 1969 (fly as fraterculus and suspensa (Loew)) * Malavasi et al. 1980 (Brazil) * Caraballo 1981 (Venezuela) * Nunez 1981 (Colombia) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Psidium guineense † Lima 1934 (host as P. araca Raddi) * Fernandez 1953 (Venezuela; host as "guayaba sabanera, Psidium sp.") † Guagliumi 1966 † Caraballo 1981	F	N
	Psidium luridum * Rust 1918 (Argentina; host as "Chinese guava, P. lucidium," probably misspelling) † Lima 1934 (host as P. lucidium, probably misspelling)	F	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
fraterculus (con.)	Psidium sartorianum * Fernandez 1953 (Venezuela; host as Eugenia puniceifolia (H.B.K.) DC.) † Guagliumi 1966 (host as Eugenia puniceifolia (H.B.K.) DC.) † Caraballo 1981	F	N
	Punica granatum - Korytkowski & Ojeda 1968 (Peru (?))	F	E
	Pyrus communis † Pierce 1918 (host as "pear") † Lima 1934 * Stone 1942a (Ecuador) - Rosillo 1953 (Argentina; host as "pera"; fly possibly not reared) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969	F	E
	Rubus sp. * Nunez 1981 (Colombia)	F	E?
	Rubus glaucus * Briceno 1975 (Venezuela; host as Rubus sp.) * Briceno 1979 (Venezuela) † Caraballo 1981	F	N
	Solanum quitoense * Nunez 1981 (Colombia)	F	N
	Spondias sp. † Pierce 1918 (host as "Para plum, Spondias sp. (?)"; fly may be based on misidentification of obliqua (Macquart)) - Greene 1929 (host as "para plum, Spondias sp.") - Greene 1934 (host as "ameixa do Para"; fly as soluta Bezzi) * Lima 1934 (Brazil; host as "ameixa do Para"; fly as var. soluta)	Q	N
	Spondias dulcis † Pierce 1918 (host as "jobo de la India"; fly may be based on misidentification of obliqua (Macquart)) † Lima 1934 † Wasbauer 1972 (host as S. cytherea Sonn.)	Q	E
	Spondias mombin † Lima 1934 - Stone 1942a (host as S. mombin and S. nigrescens Pittier) * Korytkowski & Ojeda 1968 (Peru; fly as fraterculus and suspensa (Loew)) † Korythowski Ojeda 1969	F	N

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
<u>fraterculus</u> (con.)	<u>Spondias purpurea</u> † Lima 1934 * Stone 1942a (Panama) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 * Malavasi et al. 1980 (Brazil)	F	N
	<u>Syzygium jambos</u> * Stone 1942a (Panama, Trinidad; host as <u>Eugenia jambos</u>) * Baker et al. 1944 (Mexico; host as <u>Eugenia jambos</u>) * Bush 1962 (Mexico; host as <u>Eugenia jambos</u>) * Korytkowski & Ojeda 1968 (Peru; host as <u>Eugenia jambos</u> ; fly as <u>fraterculus</u> and <u>suspensa</u> (Loew)) † Korytkowski & Ojeda 1969 (host as <u>Eugenia jambos</u>) * Aluja & Martínez 1985 (Mexico; host as <u>Eugenia jambos</u>) † Aluja et al. 1987	F	E
	<u>Syzygium malaccense</u> * Stone 1942a (Panama; host as <u>Eugenia malaccensis</u>)	F	E
	<u>Terminalia catappa</u> * Baker et al. 1944 (Mexico; host as "tropical almond") * Caraballo 1981 (Venezuela) * Aluja et al. 1987 (Mexico;)	F	E
	<u>Theobroma</u> sp. * Caraballo 1981 (Venezuela)	F	N
	<u>Turpinia occidentalis</u> * Stone 1942a (Panama; host as <u>T. paniculata</u> Vent.)	F	N
	<u>Vitis vinifera</u> * Stone 1942a (Argentina) - Korytkowski & Ojeda 1968	F	E
	<u>Ximenia americana</u> - Stone 1942a	F	N
<u>grandis</u> (Macquart)	<u>Citrullus lanatus</u> var. <u>lanatus</u> * Lima 1930b (Brazil; host as <u>C. vulgaris</u>) * Greene 1934 (Brazil; host as "watermelon") † Lima 1934 (host as <u>C. vulgaris</u>) † Stone 1942a (host as <u>C. vulgaris</u> Schrad.) † Fernandez 1953 (host as <u>C. vulgaris</u> Schrad.) † Blanchard 1961 (host as <u>C. vulgaris</u> Schrad.) - Guagliumi 1966 (Venezuela (?); probably citation of Fernandez 1953; host as <u>C. vulgaris</u> Schrad.)	F	E

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
<i>grandis</i> (con.)	- Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record; host as <i>C. vulgaris</i> Schrad.) † Zucchi 1978 (host as <i>C. vulgaris</i>) † Caraballo 1981 (host as <i>C. vulgaris</i> Schrad.)		
	<i>Citrus</i> sp.		
	- Lima 1934 (Brazil; host as "laranja"; fly probably not reared) † Blanchard 1961	Q	E
	<i>Citrus aurantium</i>	Q	E
	† Korytkowski & Ojeda 1968 † Korytkowski & Ojeda 1969 (doubtful record--citation of unspecified records, probably including Greene 1934, which Stone 1942a stated to be erroneous)		
	<i>Cucumis melo</i>	Q	E
	- Korytkowski & Ojeda 1968 (Peru (?))		
	<i>Cucumis sativus</i>	F	E
	- Lima 1930b (Brazil) † Lima 1934 - Stone 1942a † Fernandez 1953 † Blanchard 1961 - Guagliumi 1966 (Venezuela (?); probably citation of Fernandez 1953) - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record) † Zucchi 1978 † Caraballo 1981		
	<i>Cucurbita maxima</i>	F	-
	* Boscan et al. 1980 (Venezuela)		
	<i>Cucurbita moschata</i>	F	N
	* Caraballo 1981 (Venezuela)		
	<i>Cucurbita pepo</i>	F	N
	* Lima 1930b (Brazil; host as "abobora, <i>Cucurbita</i> sp.") * Fischer 1932, 1934 (Brazil) * Greene 1934 (Brazil; host as "squash") † Lima 1934 (host as "abobora, <i>Cucurbita</i> sp.") † Stone 1942a † Fernandez 1953 † Blanchard 1961 - Guagliumi 1966 (Venezuela (?); probably citation of Fernandez 1953) - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record)		

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
grandis (con.)	† Zucchi 1978		
	* Malavasi et al. 1980 (Brazil)		
	† Caraballo 1981		
	Lagenaria siceraria	F	E
	* Caraballo 1981 (Venezuela)		
	Psidium guajava	I	N
	* Fischer 1934 (Brazil; only one specimen reared from guava in pumpkin plantation)		
	† Lima 1934		
	- Korytkowski & Ojeda 1968		
greenel Lima	Quararibea pendulifera	F	N
	* Lima 1937 (Brazil; host as Q. penduliflora (misspelling))		
	† Stone 1942a		
	† Zucchi 1978 (Brazil; host as Q. penduliflora)		
	Quararibea turbinata	F	N
	* Lima 1937 (Brazil)		
	† Stone 1942a		
	† Zucchi 1978		
interrupta Stone	Schoepfia chrysophylloides	F	N
	* McClanahan 1951 (Florida)		
	† Weems 1967		
	† Wasbauer 1972		
	Schoepfia schreberi	F	N
	* Ibrahim 1980 (Florida)		
kuhlmanni Lima	Passiflora sp.	F	N
	* Blanchard 1937 (Argentina)		
	† Blanchard 1961		
	Passiflora ovalis	F	N
	* Lima 1934 (Brazil)		
	† Stone 1942a (host as Tetrastylis ovalis)		
	† Blanchard 1961 (host as Tetrastylis ovalis)		
	† Zucchi 1978 (host as Tetrastylis ovalis)		
lathana Stone	Psidium guajava	F	N
	* Stone 1942a (Mexico)		
	- Korytkowski & Ojeda 1968		

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
leptozona Hendel	Unknown host family * Lima 1937 (Brazil; host as "bacumucha") † Stone 1942a (host as "bacumucha, Lucuma sp.") † Zucchi 1978 (host as "bucumucha")	F	N
	Unknown host family * Lima 1937 (Brazil; host as "mapeba branca") † Stone 1942a (host as "mapeba branca") † Zucchi 1978 (host as "mapeba branca")	F	N
	Unknown host family * Lima 1937 (Brazil; host as "pau macaco") † Stone 1942a (host as "pau macaco, Lecythis sp. (?)") † Zucchi 1978 (host as "pau macaco")	F	N
	Chrysophyllum cainito * Stone 1942a (Panama) † Fernandez 1953 † Zucchi 1978	F	E
	Crataegus sp. * Aluja et al. 1987 (Mexico)	F	N
	Micropholis mexicana * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987	F	N
	Pouteria sp. * Lima 1937 (Brazil; host as Lucuma sp.) † Stone 1942a (host as Lucuma sp.) † Fernandez 1953 (host as Lucuma sp.) † Zucchi 1978 (host as Lucuma sp.)	F	N
	Pouteria caimito * Lima 1934 (host as Lucuma caimito) † Stone 1942a (host as Lucuma caimito) † Fernandez 1953 (host as Lucuma caimito) † Zucchi 1978 (host as Lucuma caimito)	F	N
	Pouteria campechiana * Lima 1937 (Brazil; host as Lucuma nervosa)	F	N
limae Stone	Passiflora quadrangularis * Stone 1942a (Panama) * Caraballo 1981 (Venezuela)	F	N
ludens (Loew)	Anacardium occidentale * Eskafi & Cunningham 1987 (Guatemala)	F	-

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
ludens (con.)	<p><i>Annona cherimola</i> - Stone 1942a * Baker et al. 1944 (Mexico)</p> <p><i>Annona reticulata</i> - Stone 1942a * Baker et al. 1944 (Mexico)</p> <p><i>Annona squamosa</i> * Aluja et al. 1987 (Mexico)</p> <p><i>Bumelia laetevirens</i> * Baker et al. 1944 (Mexico)</p> <p><i>Capsicum annuum</i> * Baker et al. 1944 (Mexico; host as "bell and chili peppers")</p> <p><i>Carica papaya</i> * Baker et al. 1944 (Mexico; fly laboratory reared; host as "papaya") * Mena 1965 (El Salvador) * Eskafi & Cunningham 1987 (Guatemala)</p> <p><i>Carissa macrocarpa</i> * Baker et al. 1944 (Mexico; host as "Natal plum")</p> <p><i>Casimiroa edulis</i> * Stone 1942a (Costa Rica, Mexico) * Baker et al. 1944 (Mexico) * Bush 1962 (Mexico) * Aluja & Martinez 1985 (Mexico; host as "matasano, <i>Casimiroa</i> sp.") † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala)</p> <p><i>Casimiroa tetrameria</i> - Stone 1942a</p> <p><i>Citrus aurantiifolia</i> † Emmart 1935 (host as "lime," possibly refers to <i>C. limetta</i>) - Stone 1942a * Baker et al. 1944 (Mexico) * Eskafi & Cunningham 1987 (Guatemala)</p> <p><i>Citrus aurantium</i> - Crawford 1913 (Mexico; host as "sour orange") - Crawford 1927 (host as "sour orange, <i>C. vulgaris</i>" and "bitter orange, <i>C. bigaradia</i>") * Baker et al. 1944 (Mexico; preferred host) * Bush 1962 (Mexico)</p>	<p>F</p> <p>F</p> <p>F</p> <p>L</p> <p>L</p> <p>F</p> <p>L</p> <p>F</p> <p>F</p> <p>F</p> <p>F</p> <p>F</p> <p>F</p>	<p>N?</p> <p>E</p> <p>-</p> <p>N</p> <p>N</p> <p>E</p> <p>E</p> <p>N</p> <p>N</p> <p>E</p> <p>E</p> <p>E</p>

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
ludens (con.)	* Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala)		
	Citrus limetta <ul style="list-style-type: none"> * Isaac 1905 (Mexico; host as "sweet lime") - Crawford 1913 (Mexico; host as "sweet lime") - Pierce 1918 (host as "sweet lime") - Greene 1929 (host as "sweet lime") * McPhail & Bliss 1933 (Mexico; host as "sweet lime, C. aurantifolia") * Baker et al. 1944 (Mexico; host as "limon dulce, C. limonia Osbeck") † Wasbauer 1972 (host as C. aurantifolia var. limetta) * Aluja et al. 1987 (Mexico) * Eskafi & Cunningham 1987 (Guatemala) 	F	E
	Citrus x limonia <ul style="list-style-type: none"> - Stone 1942a (host as "lemon, C. limonia", probably refers to C. limetta or less likely to C. limon (L.) Burman, lemon) 	Q	E
	Citrus maxima <ul style="list-style-type: none"> * Baker et al. 1944 (Mexico; host as "C. grandis (L.) Osbeck, shaddock," preferred host) * Aluja & Martinez 1985 (Mexico; host as "pomelo, C. grandis") † Aluja et al. 1987 	F	E
	Citrus medica <ul style="list-style-type: none"> - Crawford 1913 (Mexico; host as "citron") † Wasbauer 1972 * Aluja et al. 1987 (Mexico) 	F	E
	Citrus x paradisi <ul style="list-style-type: none"> - Crawford 1913 (Mexico; host as "grapefruit") * Crawford 1927 (Mexico; host as "grapefruit, C. decumana," possibly refers to C. maxima) * Greene 1929 (Mexico; host as "grapefruit") † Emmart 1935 (host as "grapefruit") † Quayle 1938 (host as "grapefruit") - Stone 1942a (host as "C. grandis (L.) Osbeck, grapefruit") * Baker et al. 1944 (Mexico; host as "C. grandis (L.) Osbeck, grapefruit") * Bush 1962 (Mexico; host as "C. grandis (L.) Osbeck, grapefruit") * Aluja et al. 1987 (Mexico) * Eskafi & Cunningham 1987 (Guatemala) 	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
ludens (con.)	Citrus reticulata - Crawford 1913 (Mexico; host as "tangerine") * Baker et al. 1944 (Mexico; host lightly infested, host as C. nobilis Lour.) † Wasbauer 1972 * Aluja & Martinez 1985 (Mexico) * Aluja et al. 1987 (Mexico; host as C. deliciosa Tenore and C. reticulata) * Eskafi & Cunningham 1987 (Guatemala; host as C. deliciosa, C. reshni, and C. reticulata)	F	E
	Citrus sinensis * Herrera et al. 1900 (Mexico; host as "naranja dulce, Rutcitrusa aurantium") * Isaac 1905 (Mexico; host as "sweet orange, C. aurantium") - Crawford 1913 (Mexico; host as "navel orange") - Crawford 1927 (Mexico; host as "sweet orange, C. aurantium") * McPhail & Bliss 1933 (Mexico) - Greene 1934 (host as "orange") - Stone 1942a * Baker et al. 1944 (Mexico) * Bush 1962 (Mexico) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Citrus x tangelo * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Coffea arabica * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Cucurbita sp. * Baker et al. 1944 (Mexico; host as "calabaza")	L	N
	Cydonia oblonga † Quayle 1938 (host as "quince") - Stone 1942a * Baker et al. 1944 (Mexico; record based on larvae; host as "quince")	F	E
	Cyphomandra betacea * Baker et al. 1944 (Mexico)	L	E
	Diospyros kaki * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Eriobotrya japonica * Baker et al. 1944 (Mexico; host as "loquat")	L	E

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
ludens (con.)	Feijoa sellowiana * Baker et al. 1944 (Mexico)	L	E
	Ficus sp. * Baker et al. 1944 (Mexico)	L	E
	Hylocereus spp. * Baker et al. 1944 (Mexico)	L	N
	Inga inicuill - Stone 1942a * Baker et al. 1944 (Mexico; host as I. jinicuill Schlecht. (misspelling), occasional host)	F	N
	Inga micheliana * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Juglans regia * Baker et al. 1944 (Mexico)	L	E
	Lemaireocereus spp. * Baker et al. 1944 (Mexico)	L	N
	Lycopersicon esculentum * Baker et al. 1944 (Mexico)	L	E
	Malus domestica † Quayle 1938 (host as "apple"; questionable record, not listed by the authors cited) * Baker et al. 1944 (Mexico; host as "apples (perones)") † Wasbauer 1972 (host as M. sylvestris)	I	E
	Malus pumila * Eskafi & Cunningham 1987 (Guatemala)	F	-
	Mammea americana † Emmart 1935 (host as "mamey") † Quayle 1938 (host as "mammea") - Stone 1942a * Baker et al. 1944 (Mexico) * Bush 1962 (Mexico) * Mena 1965 (El Salvador)	F	E
	Mangifera indica * Herrera et al. 1900 (Mexico) * Isaac 1905 (Mexico) † Pierce 1918 - Crawford 1927 (Mexico) - Emmart 1933 (Mexico) * McPhail & Bliss 1933 (Mexico)	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
ludens (con.)	<ul style="list-style-type: none"> - Greene 1934 * Lima 1934 (Mexico) † Emmart 1935 (Mexico; preferred host) † Quayle 1938 (host as "mango") * Stone 1942a (Guatemala, Mexico) * Baker et al. 1944 (Mexico; one of favorite hosts) * Bush 1962 (Mexico) * Mena 1965 (El Salvador; preferred host) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala) 		
Manilkara zapota	<ul style="list-style-type: none"> * Baker et al. 1944 (Mexico; host as Achras zapota; green fruit infested in laboratory) 	L	N
Mastichodendron capiri var. tempisque	<ul style="list-style-type: none"> * Aluja et al. 1987 (Mexico) 	F	-
Musa sp.	<ul style="list-style-type: none"> * Baker et al. 1944 (Mexico) 	L	E
Opuntia spp.	<ul style="list-style-type: none"> * Baker et al. 1944 (Mexico) 	L	N
Passiflora edulis	<ul style="list-style-type: none"> * Eskafi & Cunningham 1987 (Guatemala) 	F	N
Persea americana	<ul style="list-style-type: none"> † Emmart 1935 (Mexico; host as "avocado") * Stone 1942a (Mexico; record based on larvae) * Baker et al. 1944 (Mexico; record based on larvae) † Ebeling 1959 * Bush 1962 (Mexico) 	F	N
Physalis sp.	<ul style="list-style-type: none"> * Baker et al. 1944 (Mexico; host as "husk tomato") 	L	N
Pouteria sapota	<ul style="list-style-type: none"> - Pierce 1918 (host as Sideroxylon (Achras) sapota; fly probably based on misidentification of other Anastrepha sp.) - Crawford 1927 (host as Achras sapota; doubtful record, fly probably based on misidentification of another Anastrepha sp.) - Greene 1929 (host as Sideroxylon sapota) - Emmart 1933 (Mexico; occasional host; host as Calocarpum mammosum Pierce) † Emmart 1935 (host as "sapote") † Quayle 1938 (host as "sapote") 	Q	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
<i>ludens</i> (con.)	- Mena 1965 (El Salvador; host as <i>Calocarpum sapota</i> ; fly identification questionable) † Wasbauer 1972 (host as <i>Calocarpum sapota</i> and <i>Sideroxylon sapota</i>)		
	<i>Prunus</i> sp. † Pierce 1918 (host as "plum," possibly refers to <i>Spondias</i> sp.) - Greene 1929 (host as "plum") † Emmart 1935 (host as "plum") † Quayle 1938 (host as "plum")	Q	E?
	<i>Prunus</i> sp. * Baker et al. 1944 (Mexico; host as "California cherry")	L	E?
	<i>Prunus armeniaca</i> † Quayle 1938 (host as "apricot"; doubtful record, host not listed by the authors cited) † Wasbauer 1972	Q	E
	<i>Prunus persica</i> † Pierce 1918 (host as "peach") * McPhail & Bliss 1933 (Mexico) † Emmart 1935 (host as "peach") † Quayle 1938 (host as "peach") - Stone 1942a * Baker et al. 1944 (Mexico; preferred host) * Eskafi & Cunningham 1987 (Guatemala)	F	E
	<i>Psidium cattleianum</i> * Baker et al. 1944 (Mexico; host as "cattley guava")	L	E
	<i>Psidium cattleianum</i> var. <i>littorale</i> * Eskafi & Cunningham 1987 (Guatemala; host as <i>P. littorale</i>)	F	-
	<i>Psidium guajava</i> * Herrera et al. 1900 (Mexico; host as "guayabo, <i>Myrtpsidia pommifera</i> "; fly possibly misidentification of another <i>Anastrepha</i> sp.) * Isaac 1905 (Mexico; host as "guava" and <i>P. pomeiferum</i> ; fly possibly misidentification of another <i>Anastrepha</i> sp.) † Pierce 1918 (host as "guava") - Crawford 1927 (Mexico) - Emmart 1933 (Mexico; occasional host) * McPhail & Bliss 1933 (Mexico) † Emmart 1935 (host as "guava") † Quayle 1938 (host as "guava") * Baker et al. 1944 (Mexico; rare host) * Eskafi & Cunningham 1987 (Guatemala)	F	N

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Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
ludens (con.)	Punica granatum * McPhail & Bliss 1933 (Mexico) † Emmart 1935 (host as "pomegranate") - Stone 1942a * Baker et al. 1944 (Mexico; minor host)	F	E
	Pyrus communis † Quayle 1938 (host as "pear") * Baker et al. 1944 (Mexico; field records based only on larvae but easily infested in laboratory) * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Sargentia greggii * Plummer & McPhail 1941 (Mexico; larvae feed mainly in seeds) * Stone 1942a (Mexico) * Baker et al. 1944 (Mexico) * Bush 1962 (Mexico)	F	N
	Spondias mombin - Emmart 1933 (Mexico; occasional host, host as "hog plum, Spondias") * Baker et al. 1944 (Mexico; host as "Spanish plum")	L	N
	Spondias purpurea - Crawford 1927 (Mexico) † Emmart 1935 (host as "wild plum") † Quayle 1938 (host as "wild plum") * Eskafi & Cunningham 1987 (Guatemala)	F	N?
	Syzygium jambos * Baker et al. 1944 (Mexico; host as Eugenia jambos L.) * Eskafi & Cunningham 1987 (Guatemala; host as Eugenia jambos L.)	F	E
lutzi Lima	Passiflora sp. * Lima 1938a (Brazil) † Stone 1942a † Blanchard 1961 † Zucchi 1978	F	N
macrura Hendel	Chrysophyllum cainito * Caraballo 1981 (Venezuela)	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
macrura (con.)	Pouteria lactescens * Lima 1938a (Brazil; host as Pradosia lactescens) † Stone 1939b (host as Pradosia lactescens) † Blanchard 1961 (host as Pradosia lactescens) † Zucchi 1978 (host as Pradosia lactescens)	F	N
manihoti Lima	Manihot esculenta * Lima 1934 (Brazil; host as M. aipi; fly as manihoti, reared from fruits) † Stone 1942a (host as M. dulcis (Gmel.) Pax) † Fernandez 1953 (host as M. dulcis (Gmel.) Pax) - Guagliumi 1966 (Venezuela (?); host as M. dulcis and M. esculenta) - Korytkowski & Ojeda 1968 (Peru (?); host as M. dulcis (Gmel.) Pax) - Korytkowski & Ojeda 1969 (Peru (?); host as M. dulcis; fly reared from fruit (?)) * Pena & Bellotti 1977 (Colombia; fly reared from stalks) † Zucchi 1978 (host as M. dulcis) * Caraballo 1981 (Venezuela; host as M. dulcis (Gmel.) Pax and M. esculenta; fly as manihoti, reared from stems) * Jiron & Hedstrom 1988 (Costa Rica; fly reared from stems and buds)	F	N
margarita Caraballo	Chrysophyllum cainito * Caraballo 1985 (Venezuela)	F	E
mburucuyae Blanchard	Passiflora caerulea * Blanchard 1961 (Argentina)	F	-
minensis Lima	Annona cherimola * Korytkowski & Ojeda 1968 (Peru; fly as extensa Stone) † Korytkowski & Ojeda 1969 (fly as extensa Stone)	Q	-
	Citrus aurantium * Korytkowski & Ojeda 1968 (Peru; fly as extensa Stone) † Korytkowski & Ojeda 1969 (fly as extensa Stone)	Q	E
	Eriobotrya japonica - Korytkowski & Ojeda 1968 (Peru (?); fly as extensa Stone)	F	E
	Myrciaria sp. * Lima 1937 (Brazil; host as "jaboticabeira da mata") † Stone 1942a † Zucchi 1978 (host as "jaboticabeira da mata")	F	N

Part 3

Hosts of Anastrepha by Anastrepha Species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
minensis (con.)	Prunus persica - Korytkowski & Ojeda 1968 (Peru (?); fly as extensa Stone)	F	E
	Psidium guajava * Korytkowski & Ojeda 1968 (Peru; fly as extensa Stone) † Korytkowski & Ojeda 1969 (fly as extensa Stone)	F	N
montei Lima	Manihot sp. * Blanchard 1961 (Argentina; damages inflorescences; fly as procurvata Blanchard)	F	N
	Manihot esculenta * Lima 1934 (Brazil; host as M. aipi; fly reared from fruits) * Stone 1942a (Panama; host as M. dulcis and M. esculenta; fly reared from seed capsules) † Fernandez 1953 (host as M. dulcis and M. esculenta) † Blanchard 1961 (host as M. dulcis and M. esculenta) † Zucchi 1978 (host as M. aipi and Manihot sp.)	F	N
nigrifascia Stone	Mangifera indica † Wasbauer 1972 (Florida (?); cites unpublished list of R. H. Foote)	Q	E
	Manilkara emarginata * Stone 1942a (Florida; host as Mimusops emarginata)	F	N
	Manilkara zapota * Stone 1942a (Florida; host as Achras zapota)	F	E
nunezae Steyskal	Quararibea cordata * Steyskal 1977 (Colombia; host as Matisia cordata) * Nunez 1981 (Colombia; host as Matisia cordata)	F	N
obliqua (Macquart)	Unknown host family * Aluja et al. 1981 (Mexico; host as "grosella")	F	N?
	Acacia sp. - Kisliuk & Cooley 1933 (Dominica; fly probably not reared; host as acidusa Walker) † Quayle 1938 (fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	Q	N
	Alchornea latifolia * Aluja et al. 1987 (Mexico)	F	-

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	Anacardium occidentale - Stone 1942a (fly as mombinpraeoptans Sein) - Korytkowski & Ojeda 1968 (Peru (?); fly as mombinpraeoptans Sein) * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Annona cherimola * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	N
	Annona glabra - Stone 1942a (fly as mombinpraeoptans Sein)	L	N
	Annona hayesii * Stone 1942a (Panama; fly as mombinpraeoptans Sein)	F	N
	Annona muricata * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	N
	Annona squamosa * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	N
	Averrhoa carambola * Lima 1934 (Brazil; fly as ligata Lima) - Stone 1942a (fly as mombinpraeoptans Sein) * Nunez 1981 (Colombia)	F	E
	Brosimum alicastrum * Aluja et al. 1987 (Mexico; host as Brosimum alicastrum)	F	-
	Capsicum annuum * McAlister 1936 (Florida, 1930-34 infestation; host as "bell pepper, Capsicum sp."; fly as acidusa Walker) † Wasbauer 1972 (host as Capsicum sp.; fly as mombinpraeoptans Sein)	L	N
	Carica papaya * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	<p><i>Carissa macrocarpa</i></p> <p>* McAlister 1936 (Florida, 1930-34 infestation; host as <i>C. grandiflora</i>; fly as <i>acidusa</i> Walker)</p> <p>† Wasbauer 1972 (host as <i>C. grandiflora</i>; fly as <i>mombinpraeoptans</i> Sein)</p> <p><i>Chrysobalanus icaco</i></p> <p>* McAlister 1936 (Florida, 1930-34 infestation; host as <i>C. icaco</i> and <i>C. pellocarpus</i>; fly as <i>acidusa</i> Walker)</p> <p>- Stone 1942a (fly as <i>mombinpraeoptans</i> Sein)</p> <p>† Wasbauer 1972 (host as <i>C. icaco</i> and <i>C. icaco</i> var. <i>pellocarpus</i>; fly as <i>mombinpraeoptans</i> Sein)</p> <p><i>Citrofortunella x mitis</i></p> <p>* McAlister 1936 (Florida, 1930-34 infestation; host as <i>Citrus mitis</i> Blanco; fly as <i>acidusa</i> Walker)</p> <p>† Wasbauer 1972 (host as <i>Citrus reticulata</i> var. <i>austera</i> x <i>Fortunella</i> sp.; fly as <i>mombinpraeoptans</i> Sein)</p> <p><i>Citrus aurantium</i></p> <p>- Stone 1942a (fly as <i>mombinpraeoptans</i> Sein)</p> <p>- Korytkowski & Ojeda 1968 (Peru (?); fly as <i>mombinpraeoptans</i> Sein)</p> <p><i>Citrus limetta</i></p> <p>* Eskafi & Cunningham 1987 (Guatemala)</p> <p><i>Citrus maxima</i></p> <p>- Korytkowski & Ojeda 1968 (Peru (?); host as <i>C. grandis</i> (L.) Osbeck, possibly refers to <i>C. x paradisi</i>; fly as <i>mombinpraeoptans</i> Sein)</p> <p><i>Citrus x paradisi</i></p> <p>* McAlister 1936 (Florida, 1930-34 infestation; host as "C. grandis (L.) Osbeck, grapefruit"; fly as <i>acidusa</i> Walker, laboratory reared)</p> <p>* Stone 1942a (Puerto Rico; rare host, host as "C. grandis (L.) Osbeck, grapefruit"; fly as <i>mombinpraeoptans</i> Sein)</p> <p>† Wasbauer 1972 (host as <i>C. grandis</i> (L.) Osbeck; fly as <i>mombinpraeoptans</i> Sein)</p> <p>* Eskafi & Cunningham 1987 (Guatemala)</p> <p><i>Citrus sinensis</i></p> <p>† Wasbauer 1972 (fly as <i>mombinpraeoptans</i> Sein)</p> <p>* Eskafi & Cunningham 1987 (Guatemala)</p> <p><i>Coffea arabica</i></p> <p>* Eskafi & Cunningham 1987 (Guatemala)</p>	<p>L</p> <p>L</p> <p>L</p> <p>L</p> <p>F</p> <p>F</p> <p>Q</p> <p>F</p> <p>F</p> <p>F</p> <p>F</p> <p>F</p> <p>F</p>	<p>E</p> <p>N</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p>

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	Cordia sp. - Kisliuk & Cooley 1933 (Virgin Islands; fly probably not reared, fly as acidusa Walker) † Quayle 1938 (fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	Q	N?
	Crataegus sp. * Aluja & Martinez 1985 (Mexico; host as "manzanillo") † Aluja et al. 1987	F	-
	Diospyros digyna * Jiron & Hedstrom 1988 (Costa Rica)	F	-
	Diospyros kaki * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	E
	Dovyalis hebecarpa * Stone 1942a (Panama; fly as mombinpraeoptans Sein) * Caraballo 1981 (Venezuela)	F	E
	Eriobotrya japonica - Weems 1970 (fly as mombinpraeoptans Sein) † Wasbauer 1972 (fly as mombinpraeoptans Sein) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987	F	E
	Eugenia nesiotica - Stone 1942a (fly as mombinpraeoptans Sein)	F	N
	Eugenia uniflora * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) * Stone 1942a (Panama; fly as mombinpraeoptans Sein) † Wasbauer 1972 (fly as mombinpraeoptans Sein) * Aluja & Martinez 1985 (Mexico)	L	N
	Ficus carica * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) * Baker et al. 1944 (Mexico; host as "fig"; fly as mombinpraeoptans Sein) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	E
	Fortunella japonica * McAlister 1936 (Florida, 1930-34 infestation; host as Citrus japonica; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
<i>obliqua</i> (con.)	<i>Geoffraea superba</i> * Fernandez 1953 (Venezuela; fly as <i>mombinpraeoptans</i> Sein) † Guagliumi 1966 (host as <i>G. striata</i> (Willd.) Mor.; fly as <i>mombinpraeoptans</i> Sein) † Caraballo 1981	F	N
	<i>Godmania aesculifolia</i> * Fernandez 1953 (Venezuela; host as "cacho de venado"; fly as <i>mombinpraeoptans</i> Sein) † Guagliumi 1966 (host as <i>G. macrocarpa</i> (Benth.) Hemsl.; fly as <i>mombinpraeoptans</i> Sein) † Caraballo 1981 (host as <i>G. macrocarpa</i> (Benth.) Hemsl. and "cacho de venado")	F	N
	<i>Inga michelliana</i> * Eskafi & Cunningham 1987 (Guatemala)	Q	-
	<i>Inga paterna</i> * Eskafi & Cunningham 1987 (Guatemala)	Q	-
	<i>Inga ruiziana</i> - Kisliuk & Cooley 1933 (Dominica; host as <i>I. laurina</i> ; fly probably not reared) † Quyle 1938 (host as <i>I. laurina</i> ; fly as <i>aedusa</i> Walker) † Wasbauer 1972 (host as <i>I. laurina</i> ; fly as <i>mombinpraeoptans</i> Sein)	Q	-
	<i>Jambouia</i> sp. * Matavani et al. 1980 (Brazil)	F	E
	<i>Lycopersicon esculentum</i> * McAllister 1936 (Florida, 1930-34 infestation; fly as <i>aedusa</i> Walker) † Wasbauer 1972 (fly as <i>mombinpraeoptans</i> Sein)	L	N
	<i>Malpighia glabra</i> * McAllister 1936 (Florida, 1930-34 infestation; fly as <i>aedusa</i> Walker, laboratory reared) * Ballou 1945 (Venezuela; fly as <i>mombinpraeoptans</i> Sein) * Fernandez 1953 (Venezuela; fly as <i>mombinpraeoptans</i> Sein) † Guagliumi 1966 (host as <i>M. punctifolia</i> L.; fly as <i>mombinpraeoptans</i> Sein) † Wasbauer 1972 (fly as <i>mombinpraeoptans</i> Sein) * Caraballo 1981 (Venezuela)	F	N
	<i>Malus</i> sp. * McAllister 1936 (Florida, 1930-34 infestation; host as "apple"; fly as <i>aedusa</i> Walker) † Wasbauer 1972 (host as <i>Pyrus</i> sp.; fly as <i>mombinpraeoptans</i> Sein)	L	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
<i>obliqua</i> (con.)	<i>Malus sylvestris</i> † Wasbauer 1972 (cites unpublished list of R. H. Foote; fly as <i>mombinpraeoptans</i> Sein)	F	E
	<i>Mammea americana</i> - Kisliuk & Cooley 1933 (St. Christopher; doubtful record, fly not reared, fly as <i>acidusa</i> Walker) † Quayle 1938 (fly as <i>acidusa</i> Walker) † Wasbauer 1972 (fly as <i>mombinpraeoptans</i> Sein)	Q	N
	<i>Mangifera indica</i> * Herrera 1908 (Mexico; fly as <i>acidusa</i> (Walker)) * Sein 1933 (Puerto Rico; fly as <i>fraterculus</i> var. <i>mombinpraeoptans</i> Sein) - Emmart 1933 (Mexico; occasional host; fly as <i>fraterculus</i> (Wiedemann)) * Kisliuk & Cooley 1933 (Haiti; fly as <i>acidusa</i> Walker) - Greene 1934 (fly as <i>acidusa</i> Walker) * Lima 1934 (Brazil, Puerto Rico; common host in Puerto Rico; fly as <i>ligata</i> Lima) * McAlister 1936 (Florida, 1930-34 infestation; fly laboratory reared, fly as <i>acidusa</i> Walker) * Stone 1942a (Brazil, Costa Rica, Cuba, Jamaica, Mexico, Panama, Puerto Rico, Venezuela; preferred host; fly as <i>mombinpraeoptans</i> Sein) † Baker et al. 1944 (preferred host in Puerto Rico but not attacked in Morelos, Mexico; fly as <i>mombinpraeoptans</i> Sein) * Ballou 1945 (Venezuela; fly as <i>mombinpraeoptans</i> Sein) * Fernandez 1953 (Venezuela; fly as <i>mombinpraeoptans</i> Sein) * Bush 1962 (Mexico; fly as <i>mombinpraeoptans</i> Sein) * Mena 1965 (El Salvador; fly as <i>mombinpraeoptans</i> Sein) † Guagliumi 1966 (fly as <i>mombinpraeoptans</i> Sein) * Whervin 1974 (Jamaica; preferred host; fly as <i>mombinpraeoptans</i> Sein) * Ericeno 1975, 1979 (Venezuela; fly as <i>mombinpraeoptans</i> Sein) * Jiron & Zeledon 1979 (Costa Rica) * Malavasi et al. 1980 (Brazil) * Caraballo 1981 (Venezuela) * Nunez 1981 (Colombia) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala)	F	R
	<i>Manihot esculenta</i> - Guagliumi 1966 (Venezuela (?); fly as <i>mombinpraeoptans</i> Sein) † Caraballo 1981	Q	R

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	Manilkara zapota * McAlister 1936 (Florida, 1930-34 infestation; host as Achras zapota L.; fly as acidusa Walker, laboratory reared) - Stone 1942a (host as Achras zapota L.; fly as mombinpraeoptans Sein, laboratory reared) - Korytkowski & Ojeda 1968 (Peru (?); host as Achras zapota L.; fly as mombinpraeoptans Sein) † Wasbauer 1972 (host as Achras zapota L.; fly as mombinpraeoptans Sein) * Nunez 1981 (Colombia; host as Achras zapota)	F	N
	Passiflora quadrangularis - Stone 1942a (fly laboratory reared, fly as mombinpraeoptans Sein) * Caraballo 1981 (Venezuela)	F	N
	Phaseolus sp. * McAlister 1936 (Florida, 1930-34 infestation; host as "string bean"; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	-
	Pouteria campechiana * McAlister 1936 (Florida, 1930-34 infestation; host as Lucuma nervosa; fly as acidusa Walker) † Wasbauer 1972 (host as Lucuma nervosa; fly as mombinpraeoptans Sein)	L	N
	Pouteria sapota - Emmart 1933 (Mexico; occasional host, host as Calocarpum mammosum Pierre; fly as fraterculus (Wiedemann)) - Stone 1942a (host as Calocarpum mammosum (L.) Pierre; fly as mombinpraeoptans Sein) - Korytkowski & Ojeda 1968 (Peru (?); host as Calocarpum mammosum (L.) Pierre; fly as mombinpraeoptans Sein) † Weems 1970 (host as Pouteria mammosa; fly as mombinpraeoptans Sein)	F	N
	Pouteria viridis * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Prunus sp. * Baker et al. 1944 (Mexico; fly as mombinpraeoptans Sein)	L	E?
	Prunus americana * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	E

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	Prunus arnoldiana - Wasbauer 1964 (fly as mombinpraeoptans Sein) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	F	E?
	Prunus capuli * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Prunus dulcis - Stone 1942a (host as P. amygdalus Batsch; fly as mombinpraeoptans Sein) - Korytkowski & Ojeda 1968 (Peru (?); host as P. amygdalus Batsch; fly as mombinpraeoptans Sein)	F	E
	Prunus persica * McAlister 1936 (Florida, 1930-34 infestation; host as Amygdalus persica; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	E
	Prunus salicina - Guagliumi 1966 (Venezuela (?); fly as mombinpraeoptans Sein) † Caraballo 1981	F	-
	Psidium cattleianum * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)	L	N
	Psidium cattleianum var. littorale * Eskafi & Cunningham 1987 (Guatemala; host as P. littorale)	F	-
	Psidium guajava * McPhail & Bliss 1933 (Mexico; fly as "fraterculus, West Indian fruit fly") * Sein 1933 (Puerto Rico; occasional host; fly as fraterculus var. mombinpraeoptans Sein) - Greene 1934 (fly as acidusa Walker) † Lima 1934 (less than 1 percent of flies reared from this host in Puerto Rico were obliqua; fly as fraterculus var. mombinpraeoptans) * McAlister 1936 (Florida, 1930-34 infestation; less preferred than Spondias spp. in laboratory rearings; fly as acidusa Walker) * Stone 1942a (Honduras; not as highly preferred as Anacardiaceae hosts; fly as mombinpraeoptans Sein) - Guagliumi 1966 (Venezuela (?); fly as mombinpraeoptans Sein) - Korytkowski & Ojeda 1968 (Peru (?); fly as mombinpraeoptans Sein) * Whervin 1974 (Jamaica; fly as mombinpraeoptans Sein) * Malavasi et al. 1980 (Brazil)	F	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	<ul style="list-style-type: none"> * Caraballo 1981 (Venezuela) * Nunez 1981 (Colombia) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala) 		
	Punica granatum <ul style="list-style-type: none"> * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) - Korytkowski & Ojeda 1968 (Peru (?); fly as mombinpraeoptans Sein) † Wasbauer 1972 (fly as mombinpraeoptans Sein) 	L	E
	Pyrus communis <ul style="list-style-type: none"> * Eskafi & Cunningham 1987 (Guatemala) 	F	E
	Pyrus communis x P. pyrifolia <ul style="list-style-type: none"> * McAlister 1936 (Florida, 1930-34 infestation; host as "Kieffer pear, Pyrus sp."; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein) 	L	E
	Spondias dulcis <ul style="list-style-type: none"> * Sein 1933 (Puerto Rico; rare host; fly as fraterculus var. mombinpraeoptans Sein) † Lima 1934 (fly as fraterculus var. mombinpraeoptans Sein) * McAlister 1936 (Florida, 1930-34 infestation; host as S. cytherea Sonn.; fly as acidusa Walker) * Stone 1942a (Brazil, Panama; fly as mombinpraeoptans Sein) † Wasbauer 1972 (fly as mombinpraeoptans Sein) * Whervin 1974 (Jamaica; fly as mombinpraeoptans Sein) 	F	E
	Spondias mombin <ul style="list-style-type: none"> - Emmart 1933 (Mexico; host as "hog plum, Spondias"; fly as fraterculus (Wiedemann)) * Kisliuk & Cooley 1933 (Haiti; fly as acidusa Walker) * McPhail & Bliss 1933 (Mexico; fly as "fraterculus, West Indian fruit fly") * Sein 1933 (fly as fraterculus var. mombinpraeoptans Sein) * Greene 1934 (Panama; host as S. mombin and S. lutea; fly as acidusa Walker) * Lima 1934 (Puerto Rico; common host, host as S. mombin and S. lutea; fly as fraterculus var. mombinpraeoptans Sein) * McAlister 1936 (Florida, 1930-34 infestation; field host and preferred laboratory host; fly as acidusa Walker) * Stone 1942a (Jamaica, Panama, Puerto Rico, Trinidad; host as S. mombin and S. nigrescens Pittier, preferred host; fly as mombinpraeoptans Sein) * Baker et al. 1944 (Mexico; host as Spondias sp.; fly as mombinpraeoptans Sein) * Ballou 1945 (Venezuela; fly as mombinpraeoptans Sein) 	F	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	<ul style="list-style-type: none"> * Fernandez 1953 (Venezuela; preferred host; fly as mombinpraeoptans Sein) * Bush 1962 (Mexico; fly as mombinpraeoptans Sein) † Guagliumi 1966 (fly as mombinpraeoptans Sein) * Korytkowski & Ojeda 1968 (Peru; fly as mombinpraeoptans Sein) † Korytkowski & Ojeda 1969 (fly as mombinpraeoptans Sein) * Whervin 1974 (Jamaica; host as S. mombin and S. purpurea form lutea; fly as mombinpraeoptans Sein) * Caraballo 1981 (Venezuela) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 		
	Spondias purpurea	F	N
	<ul style="list-style-type: none"> * Sein 1933 (Puerto Rico; host as S. cirouella and S. purpurea; fly as fraterculus var. mombinpraeoptans Sein) † Lima 1934 (host as S. cirouella and S. purpurea; fly as fraterculus var. mombinpraeoptans Sein) * McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) * Stone 1942a (Jamaica, Panama, Venezuela; preferred host; fly as mombinpraeoptans Sein) * Ballou 1945 (Venezuela; fly as mombinpraeoptans Sein) * Fernandez 1953 (Venezuela; preferred host; fly as mombinpraeoptans Sein) * Mena 1965 (El Salvador; host as "jocote, Spondias spp."; fly as mombinpreoptans) † Guagliumi 1966 (fly as mombinpraeoptans Sein) * Korytkowski & Ojeda 1968 (Peru (?); fly as mombinpraeoptans Sein) † Korytkowski & Ojeda 1969 (fly as mombinpraeoptans Sein) * Whervin 1974 (Jamaica; fly as mombinpraeoptans Sein) * Jiron & Zeledon 1979 (Costa Rica) * Malavasi et al. 1980 (Brazil) † Caraballo 1981 * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala) 		
	Spondias venulosa	F	N
	* Malavasi et al. 1980 (Brazil)		
	Syzgium jambos	F	E
	<ul style="list-style-type: none"> * Sein 1933 (Puerto Rico; occasional host, host as Jambos jambos; fly as fraterculus var. mombinpraeoptans Sein) * Kisliuk & Cooley 1933 (Dominican Republic; host as "rose apple"; fly as acidusa Walker) - Greene 1934 (host as Eugenia jambos; fly as acidusa Walker) 		

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obliqua (con.)	† Lima 1934 (host as Jambos jambos; fly as fraterculus var. mombinpraeoptans Sein) * Stone 1942a (Dominican Republic, Puerto Rico; host as Eugenia jambos; fly as mombinpraeoptans Sein) * Baker et al. 1944 (Mexico; host as Eugenia jambos; fly as mombinpraeoptans Sein) * Mena 1965 (El Salvador; host as Eugenia jambos; fly as mombinpraeoptans Sein) - Guagliumi 1966 (Venezuela (?); host as Eugenia jambos; fly as mombinpraeoptans Sein) - Korytkowski & Ojeda 1968 (Peru (?); host as Eugenia jambos; fly as mombinpraeoptans Sein) * Whervin 1974 (Jamaica; fly as mombinpraeoptans Sein) * Jiron & Zeledon 1979 (Costa Rica; host as Eugenia jambos) * Caraballo 1981 (Venezuela) * Aluja & Martinez 1985 (Mexico; host as Eugenia jambos) † Aluja et al. 1987		
	Syzygium malaccense	F	E
	* Stone 1942a (Panama; host as Eugenia malaccensis; fly as mombinpraeoptans Sein) * Caraballo 1981 (Venezuela) * Aluja et al. 1987 (Mexico)		
	Terminalia catappa	L	E
	* McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Quayle 1938 (Doubtful record based on adult records of Kisliuk & Cooley (1933) from Dominica; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)		
	Thevetia peruviana	L	N
	* McAlister 1936 (Florida, 1930-34 infestation; host as T. nerifolia; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)		
	Vitis vinifera	L	E
	* McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)		
	Ximenia americana	L	N
	* McAlister 1936 (Florida, 1930-34 infestation; fly as acidusa Walker) † Wasbauer 1972 (fly as mombinpraeoptans Sein)		

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
obscura Aldrich	Pouteria multiflora * Aldrich 1925 (Trinidad; host as Lucuma multiflora) † Lima 1934 (host as Lucuma multiflora) † Greene 1934 (host as Lucuma multiflora) † Stone 1939a (host as Lucuma multiflora) † Zucchi 1978 (host as Lucuma multiflora)	F	N
ocresia (Walker)	Manilkara zapota * Foote 1964 (Dominican Republic; host as Achras zapota L.) † Weems 1968 (host as Achras zapota L.) † Wasbauer 1972 (host as Achras zapota L.)	F	E
	Psidium guajava - Weems 1968 † Wasbauer 1972	F	N
ornata Aldrich	Psidium sp. * Stone 1942a (Ecuador)	Q	N
	Psidium guajava * Hedstrom 1987 (Ecuador; fly as odonata (misspelling))	F	N
	Pyrus communis * Stone 1942a (Ecuador)	F	E
pallens Coquillett	Bumelia celastrina * Greene 1934 (Texas; host as Bumelia angustifolia Nutt.) * Phillips 1946 (Texas; host as Bumelia angustifolia Nutt.)	F	N
	Bumelia spiniflora * McPhail & Berry 1936 (Texas; host probably misidentification of B. celastrina; larvae feed on seeds) † Stone 1939b (host probably misidentification of B. celastrina) * Baker et al. 1944 (Mexico; host probably misidentification of B. celastrina; larvae feed on seeds)	Q	N
pallidi- pennis Greene	Passiflora ambigua * Stone 1942a (Panama)	F	N
	Passiflora quadrangularis * Stone 1942a (Colombia, Panama)	F	N
	Passiflora seemanni * Stone 1942a (Panama)	F	N

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
panamensis Greene	Chrysophyllum cainito * Greene 1934 (Panama) * Stone 1942a (Panama)	F	E
	Chrysophyllum panamense * Stone 1942a (Panama)	F	N
parallela (Wiede- mann)	Unknown host family * Lima 1937 (Brazil; host as "bacumucha") † Stone 1942a (host as Lucuma sp.) † Zucchi 1978 (host as Lucuma sp.)	F	-
	Sterculia sp. * Lima 1937 (Brazil; host as "samuma") † Lima 1938a † Stone 1942a † Zucchi 1978	F	-
parishi Stone	Psidium guajava * Caraballo 1981 (Venezuela)	F	N
passiflorae Greene	Passiflora vitifolia * Greene 1934 (Panama) * Stone 1942a (Panama)	F	N
perdita Stone	Spondias mombin * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969	F	N
phaeoptera Lima	Helicostylis poeppigiana * Lima 1937 (Brazil; host as "amora preta") † Lima 1938a (host as Helixanthostylis poppigiana (misspelling)) † Stone 1942a † Zucchi 1978	F	N
pickeli Lima	Manihot esculenta * Lima 1934 (Brazil; host as M. aipi; fly reared from fruit) † Emmart 1935 (host as "yucca pods"; fly as ludens (Loew), probably based on misidentification of this species or montei (Lima)) * Stone 1942a (Panama, Venezuela; host as M. dulcis (Gmel.) Pax and M. esculenta; fly reared from flower heads and seed capsules)	F	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
pickeli (con.)	* Fernandez 1953 (Venezuela; fly reared from fruit)		
	† Blanchard 1961 (host as <i>M. esculenta</i> and <i>M. dulcis</i>)		
	† Guagliumi 1966		
	* Korytkowski & Ojeda 1968 (Peru; host as <i>M. esculenta</i> and <i>M. dulcis</i> (Gmel.) Pax)		
	† Korytkowski & Ojeda 1969		
	* Pena & Bellotti 1977 (Colombia)		
	* Zucchi 1978 (Brazil)		
	† Malavasi et al. 1980		
	* Caraballo 1981 (Venezuela; host as <i>M. esculenta</i> and " <i>Manihot</i> sp., yuca"; fly reared from fruit)		
	* Nunez 1981 (Colombia; host as <i>Manihot</i> sp.; fly reared from fruit)		
	* Jiron & Hedstrom 1988 (Costa Rica; fly reared from seed capsules)		
	<i>Quararibea magnifica</i>	F	N
	- Guagliumi 1966 (Venezuela (?))		
	† Caraballo 1981		
	<i>Quararibea turbinata</i>	F	N
pseudo- parallela (Loew)	* Lima 1937 (Brazil)		
	† Stone 1942a		
	† Fernandez 1953		
	† Blanchard 1961		
	† Zucchi 1978		
	<i>Mangifera indica</i>	F	E
	* Zucchi 1978 (Brazil; host as " <i>Mangifera</i> sp., manga")		
	† Malavasi et al. 1980		
	<i>Passiflora alata</i>	F	N
	* Malavasi et al. 1980 (Brazil)		
	<i>Passiflora caerulea</i>	F	N
	* Korytkowski & Ojeda 1969 (Peru; host as <i>P. coerulea</i> (misspelling))		
	<i>Passiflora edulis</i>	F	N
	* Blanchard 1961 (Argentina)		
	- Korytkowski & Ojeda 1968 (Peru (?))		
	* Malavasi et al. 1980 (Brazil)		
	<i>Passiflora ligularis</i>	F	-
	* Korytkowski & Ojeda 1969 (Peru)		
	<i>Passiflora quadrangularis</i>	F	N
	* Lima 1934 (Brazil)		
	† Stone 1942a		

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
pseudo- parallela (con.)	† Blanchard 1961 - Korytkowski & Ojeda 1968 (Peru (?)) † Zucchi 1978		
	Psidium guajava * Stone 1942a (Brazil) † Blanchard 1961 † Zucchi 1978	Q	N
pulchra Stone	Sapotaceae sp. * Caraballo 1981 (Venezuela)	F	N
punctata Hendel	Citrus sp. - Rosillo 1953 (Argentina; fly probably not reared)	Q	E
	Psidium guajava * Blanchard 1937 (Argentina; host as "guayabo") † Stone 1942a † Blanchard 1961 † Zucchi 1978 * Malavasi et al. 1980 (Brazil)	F	N
quararibae Lima	Quararibea pendulifera * Lima 1937 (Brazil; host as Q. penduliflora (misspelling)) † Stone 1942a † Zucchi 1978 (host as Q. "penduliflora")	F	N
	Quararibea turbinata * Lima 1937 (Brazil) † Stone 1942a † Zucchi 1978	F	N
quiinae Lima	Quiina glaziovii * Lima 1937 (Brazil) † Stone 1942a † Zucchi 1978	F	-
rheediae Stone	Rheedia sp. * Stone 1942a (Trinidad)	F	N?
	Rheedia acuminata * Stone 1942a (Panama; host as R. madruno (H.B.K.) Planch. & Tr.) † Fernandez 1953 (host as R. madruno) * Nunez 1981 (Colombia; host as R. madruno (H.B.K.))	F	N

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
rheediae (con.)	Rheedia braziliensis * Zucchi 1978 (Brazil) † Malavasi et al. 1980	F	N
rosilloi Blanchard	Citrus sp. - Rosillo 1953 (Argentina; fly probably not reared) † Blanchard 1961	Q	E
sagittata (Stone)	Pouteria campechiana † Stone 1939a (host as Lucuma sp.) * Baker et al. 1944 (Mexico; host as Lucuma salicifolia H.B.K.; larvae feed only on seeds)	F	N
schultzi Blanchard	Citrus sp. - Rosillo 1953 (Argentina; fly probably not reared) - Blanchard 1961 (Argentina)	Q	E
	Prunus sp. - Rosillo 1953 (Argentina; host as "damasco"; fly probably not reared)	Q	E
	Prunus persica - Rosillo 1953 (Argentina; host as "duraznero"; fly probably not reared) - Blanchard 1961 (Argentina; host as "durazno")	Q	E
	Psidium guajava * Blanchard 1961 (Argentina)	F	N
	Spondias sp. - Rosillo 1953 (Argentina; host as "ciruelo"; fly probably not reared)	Q	N?
serpentina (Wiede- mann)	Moraceae sp. * Caraballo 1981 (Venezuela)	F	-
	Sapotaceae sp. * Lima 1937 (Brazil; host as "cotia")	F	N
	Sapotaceae sp. * Caraballo 1981 (Venezuela; host as "gonzigon")	F	N
	Alchornea latifolia * Aluja et al. 1987 (Mexico)	F	-

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
<u>serpentina</u> (con.)	<u>Annona glabra</u> * Stone 1942a (Panama; fly laboratory reared) * Shaw 1947 (Mexico; host lightly infested) - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record)	F	N
	<u>Bumelia laetevirens</u> * Shaw 1947 (Mexico; host lightly infested but important because of long fruiting time)	F	N
	<u>Byrsonima crassifolia</u> * Aluja et al. 1987 (Mexico)	F	-
	<u>Capsicum annum</u> † Shaw 1947 (Panama; cites unpublished list of J. Zetek)	L	N
	<u>Carissa macrocarpa</u> * Baker et al. 1944 (Mexico; host as "Natal plum")	L	E
	<u>Chrysophyllum cainito</u> * Greene 1929 (Panama; host as "star apple") * Greene 1934 (Costa Rica, Panama; host as "star apple") * Lima 1934 (Brazil) * Stone 1942a (Ecuador, Panama, Trinidad; preferred host) * Ballou 1945 (Venezuela) * Shaw 1947 (Mexico; host often heavily infested) * Fernandez 1953 (Venezuela; preferred host) † Guagliumi 1966 * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 * Caraballo 1981 (Venezuela) * Nunez 1981 (Colombia) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala)	F	E
	<u>Chrysophyllum panamense</u> * Greene 1934 (Panama) * Stone 1942a (Panama) † Shaw 1947 (cites unpublished list of J. Zetek; host as <u>C. panamense</u> var. <u>macrophyllum</u> Standley)	F	N
	<u>Citrofortunella x mitis</u> - Weems 1969 (host as <u>Citrus mitis</u>) † Wasbauer 1972 (host as <u>Citrus reticulata</u> var. <u>austera</u> x <u>Fortunella</u> sp.)	F	E
	<u>Citrus aurantium</u> * Aluja et al. 1987 (Mexico)	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
serpentina (con.)	Citrus maxima * Aluja et al. 1987 (Mexico)	F	E
	Citrus x paradisi * Baker et al. 1944 (Texas; host as "grapefruit"; host readily infested in laboratory in Mexico, but fly reared from field only one time) † Shaw 1947 (Texas, Trinidad; cites unpublished report of L. F. Greer; host as "grapefruit") * Caraballo 1981 (Venezuela)	F	E
	Citrus reticulata - Guagliumi 1966 (Venezuela (?)) † Caraballo 1981	F	E
	Citrus sinensis * Stone 1942a (Panama) † Baker et al. 1944 (Panama; host as "market oranges") † Shaw 1947 (host as "sweet oranges") † Fernandez 1953 - Guagliumi 1966 (Venezuela (?); probably citation of Fernandez 1953) - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record) † Caraballo 1981 * Aluja & Martinez 1985 (Mexico; occasional host) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Cydonia oblonga * Stone 1942a (Mexico) * Baker et al. 1944 (Mexico; larval record; host as "quince") † Shaw 1947 - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record) † Wasbauer 1972 (host as Chaenomeles sp.)	F	E
	Diospyros digyna * Jiron & Hedstrom 1988 (Costa Rica)	F	-
	Dovyalis hebecarpa * Stone 1942a (Panama) † Shaw 1947	F	E
	Eugenia uniflora † Shaw 1947 (Panama; cites unpublished list of J. Zetek)	L	N
	Ficus sp. * Shaw 1947 (Mexico; host lightly infested)	F	-

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
serpentina (con.)	Fortunella sp. * Baker et al. 1944 (Mexico; host as "kumquat")	L	E
	Lacmellea panamensis * Stone 1942a (Panama; host as Zschokkea panamensis; fly reared from flesh and seeds of fruit) † Shaw 1947	F	N
	Lycopersicon esculentum * Stone 1942a (Panama) † Shaw 1947 - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record; host as L. sculentum (misspelling))	L	N
	Malus domestica * Baker et al. 1944 (Mexico; larval record; host as "apple") * Shaw 1947 (Mexico; host as "apple, Malus sylvestris," lightly infested)	F	E
	Mammea americana * Herrera 1908 (Mexico) † Lutz & Lima 1918 * Greene 1934 (Ecuador) * Lima 1934 (Brazil) * Stone 1942a (Ecuador, Mexico) * Shaw 1947 (Mexico; host often heavily infested) † Fernandez 1953 - Guagliumi 1966 (Venezuela (?); probably citation of Fernandez 1953) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 * Malavasi et al. 1980 (Brazil) † Caraballo 1981	F	E
	Mangifera indica * Stone 1942a (fly laboratory reared) † Shaw 1947 (fly laboratory reared) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 * Nunez 1981 (Colombia) * Aluja & Martinez 1985 (Mexico; occasional host) † Aluja et al. 1987	F	E
	Manilkara elata * Lima 1934 (Brazil; host as "massaranduba, Mimusops sp.") - Shaw 1947	F	N
	Manilkara zapota † Lutz & Lima 1918 (host as Sapota achras Mill.) * Greene 1929 (Panama; host as "nispero")	F	N

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
serpentina (con.)	<ul style="list-style-type: none"> * Greene 1934 (Panama, Trinidad; host as <i>Achras zapota</i> L.) * Lima 1934 (Brazil; host as <i>Achras sapota</i> Mill.) * Stone 1942a (Brazil, Dominica, Guatemala, Panama, Trinidad; host as <i>Achras zapota</i> L., preferred host) * Baker et al. 1944 (Mexico; host as "chicozapote") * Ballou 1945 (Venezuela; host as <i>Achras zapota</i> L.) * Shaw 1947 (Mexico; host often heavily infested, host as <i>Manilkara zapotilla</i> (Jacq.) Gilly) * Fernandez 1953 (Colombia, Trinidad, Venezuela; preferred host, host as <i>Achras zapota</i> L.) † Guagliumi 1966 (host as <i>Achras zapota</i> L.) * Korytkowski & Ojeda 1968 (Peru; host as <i>Achras zapota</i> L.) † Korytkowski & Ojeda 1969 * Jiron & Zeledon 1979 (Costa Rica; host as <i>Manilkara achras</i> L.) * Malavasi et al. 1980 (Brazil; host as <i>Achras zapota</i> L. and <i>Manilkara zapotilla</i> (Jacq.)) * Caraballo 1981 (Venezuela; host as <i>Achras zapota</i> L.) * Nunez 1981 (Colombia; host as <i>Achras zapota</i>) * Aluja & Martinez 1985 (Mexico; host as <i>Achras zapota</i>) † Aluja et al. 1987 (host as <i>Manilkara achras</i>) * Eskafi & Cunningham 1987 (Guatemala; host as <i>Manilkara achras</i>) 		
	Mastichodendron capiri var. tempisque	F	N
	<ul style="list-style-type: none"> * Shaw 1947 (Mexico; host as <i>Sideroxylon tempisque</i> Pittier, lightly infested) 		
	Micropholis mexicana	F	N
	<ul style="list-style-type: none"> * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 		
	Mimusops coriacea	F	-
	<ul style="list-style-type: none"> * Lutz & Lima 1918 (Brazil) * Lima 1934 (Brazil) - Stone 1942a † Shaw 1947 		
	Persea americana	F	N
	<ul style="list-style-type: none"> - Ebeling 1959 † Wasbauer 1972 		
	Pouteria sp.	F	-
	<ul style="list-style-type: none"> † Shaw 1947 (Guatemala; host as <i>Lucuma</i> sp.; cites unpublished list of C. C. Plummer) 		

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
serpentina (con.)	<p>Pouteria caimito</p> <p>* Lutz & Lima 1918 (Brazil; host as <i>Lucuma cainito</i> A.DC.)</p> <p>* Lima 1934 (Brazil; host as <i>Lucuma caimito</i>)</p> <p>† Shaw 1947 (host as <i>Lucuma caimito</i>)</p> <p>* Malavasi et al. 1980 (Brazil)</p>	F	N
	<p>Pouteria campechiana</p> <p>* Baker et al. 1944 (Mexico; host as <i>Lucuma salicifolia</i> H.B.K.)</p> <p>* Shaw 1947 (Mexico; host as <i>Lucuma salicifolia</i> H.B.K., heavily infested)</p> <p>* Caraballo 1981 (Venezuela)</p> <p>* Aluja & Martinez 1985 (Mexico; host as <i>Lucuma salicifolia</i>)</p> <p>† Aluja et al. 1987</p>	F	N
	<p>Pouteria hypoglaucia</p> <p>* Baker et al. 1944 (Mexico; host as "socavite, <i>Lucuma</i> sp. nr. <i>standleyana</i> Pittier")</p> <p>* Shaw 1947 (Mexico; host heavily infested, host as "socavite, <i>Lucuma standleyana</i> Pittier" (misidentification))</p>	F	N
	<p>Pouteria obovata</p> <p>* Kisliuk & Cooley 1933 (Peru; host as <i>Lucuma</i> sp.)</p> <p>* Stone 1942b (Peru; preferred host, host as <i>Lucuma obovata</i>)</p> <p>† Shaw 1947 (host as <i>Lucuma obovata</i>)</p> <p>* Korytkowski & Ojeda 1968 (Peru; host as <i>Lucuma obovata</i>)</p> <p>† Korytkowski & Ojeda 1969 (host as <i>Lucuma obovata</i>)</p>	F	N
	<p>Pouteria sapota</p> <p>- Emmart 1933 (Mexico; host as <i>Calocarpum mammosum</i> Pierre)</p> <p>* Stone 1942a (Costa Rica; host as <i>Calocarpum mammosum</i> (L.) Pierre)</p> <p>* Baker et al. 1944 (Mexico; host as "sapote" and <i>Calocarpum mammosum</i> (L.) Pierre)</p> <p>* Shaw 1947 (Mexico; host as <i>Calocarpum mammosum</i> (L.) Pierre, heavily infested)</p> <p>* Bush 1962 (Mexico; host as <i>Calocarpum mammosum</i> (L.) Pierre)</p> <p>- Korytkowski & Ojeda 1968 (Peru (?); host as <i>Calocarpum mammosum</i> (L.) Pierre)</p> <p>* Jiron & Zeledon 1979 (Costa Rica; host as <i>Pouteria mammosa</i>)</p> <p>* Caraballo 1981 (Venezuela; host as <i>Calocarpum sapota</i>)</p> <p>* Aluja & Martinez 1985 (Mexico; host as <i>Calocarpum zapota</i>)</p> <p>† Aluja et al. 1987 (host as <i>Calocarpum sapota</i> Merr.)</p> <p>* Eskafi & Cunningham 1987 (Guatemala; host as <i>Pouteria mammosa</i>)</p>	F	N

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
serpentina (con.)	Pouteria stylosa * Stone 1942b (Panama; host as Labatia standleyana (Pittier)) † Shaw 1947 (host as Labatia standleyana (Pittier))	F	N
	Pouteria viridis * Bates 1932 (Guatemala) † Shaw 1947 (host as Calocarpum viride Pittier) * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Prunus sp. * Baker et al. 1944 (Mexico; host as "California cherry")	L	E
	Prunus persica * Baker et al. 1944 (Mexico; host as "peach") * Shaw 1947 (Mexico; host lightly infested)	F	E
	Psidium guajava * Greene 1929, 1934 (Panama; host as guava; considered erroneous record by Stone 1942a) † Shaw 1947 (Panama; fly laboratory reared; cites unpublished list of J. Zetek) * Eskafi & Cunningham 1987 (Guatemala)	F	N
	Pyrus communis * Baker et al. 1944 (Mexico; host as "pear"; fly readily reared in laboratory but single field record based only on larvae) † Shaw 1947	F	E
	Spondias mombin * Stone 1942a (Panama) † Shaw 1947 - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record)	F	N
	Spondias purpurea * Jiron & Zeledon 1979 (Costa Rica)	F	N
	Syzygium malaccense † Shaw 1947 (Panama; cites unpublished list of J. Zetek; host as Eugenia malaccensis)	L	E
	Terminalia catappa † Shaw 1947 (Panama; cites unpublished list of J. Zetek)	L	E

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
sororcula Zucchi	Coffea arabica * Malavasi et al. 1980 (Brazil)	F	E
	Eugenia uniflora * Malavasi et al. 1980 (Brazil)	F	N
	Psidium guajava * Zucchi 1978 (Brazil; host as "goiaba") * Malavasi et al. 1980 (Brazil)	F	N
steyskali Korytkow- ski	Chrysophyllum cainito * Korytkowski 1974 (Peru; larvae feed on mesocarp and seeds)	F	E
striata Schiner	Annona muricata - Guagliumi 1966 (Venezuela) † Caraballo 1981	F	N
	Bumelia obtusifolia ssp. buxifolia * Caraballo 1981 (Venezuela; host identification uncertain)	F	N
	Chrysophyllum cainito * Jiron & Zeledon 1979 (Costa Rica)	F	E
	Citrus sinensis * Martorell 1939 (Venezuela) † Guagliumi 1966 † Caraballo 1981 * Eskafi & Cunningham 1987 (Guatemala)	F	E
	Diospyros digyna * Jiron & Hedstrom 1988 (Costa Rica)	F	-
	Eugenia uniflora * Stone 1942a (Panama) † Zucchi 1978	L	N
	Mangifera indica - Emmart 1933 (Mexico; occasional host) * McPhail & Bliss 1933 (Mexico) * Stone 1942a (Costa Rica) - Guagliumi 1966 (Venezuela (?); possibly citation of previous record) * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 † Zucchi 1978 * Jiron & Zeledon 1979 (Costa Rica) † Caraballo 1981	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
striata (con.)	Manihot esculenta * Stone 1942a (Panama; fly reared once from seed pod) - Guagliumi 1966 (Venezuela (?); possibly citation of previous record) - Korytkowski & Ojeda 1968 (Peru (?); probably citation of previous record) † Zucchi 1978 † Caraballo 1981	F	N
	Manilkara zapota * Stone 1942a (Panama; host as Achras zapota L.) † Zucchi 1978	L	N
	Myrcia popayanensis * Ollarte 1980 (Colombia)	F	-
	Passiflora edulis * Ollarte 1980 (Colombia)	Q	N
	Pouteria viridis * Eskafi & Cunningham 1987 (Guatemala)	F	-
	Prunus persica * Martorell 1939 (Venezuela) † Guagliumi 1966 † Caraballo 1981	F	E
	Psidium acutangulum * Malavasi et al. 1980 (Brazil)	F	N
	Psidium cattleianum * Fernandez 1953 (Venezuela) † Guagliumi 1966 † Caraballo 1981	F	N
	Psidium cattleianum var. littorale * Eskafi & Cunningham 1987 (Guatemala; host as P. littorale)	F	-
	Psidium friedrichsthalianum * Jiron & Zeledon 1979 (Costa Rica)	F	N
	Psidium guajava * Picado 1920 (Costa Rica; host as "guayaba") * Greene 1929 (Panama) - Emmart 1933 (Mexico) * McPhail & Bliss 1933 (Mexico) * Greene 1934 (Costa Rica, Panama; host as "guava") * Lima 1934 (Brazil) * Martorell 1939 (Venezuela)	F	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
striata (con.)	<ul style="list-style-type: none"> * Stone 1942a (Honduras, Mexico, Panama, Trinidad, Venezuela) * Baker et al. 1944 (Mexico; preferred host, rarely attacks anything else) * Ballou 1945 (Venezuela) * Fernandez 1953 (Venezuela) * Bush 1962 (Mexico) † Guagliumi 1966 * Korytkowski & Ojeda 1968 (Peru) † Korytkowski & Ojeda 1969 * Briceno 1975, 1979 (Venezuela) † Zucchi 1978 * Jiron & Zeledon 1979 (Costa Rica) * Malavasi et al. 1980 (Brazil) * Caraballo 1981 (Venezuela) * Aluja & Martinez 1985 (Mexico) † Aluja et al. 1987 * Eskafi & Cunningham 1987 (Guatemala) 		
	Psidium guineense <ul style="list-style-type: none"> * Fernandez 1953 (Venezuela; host as "guayaba sabanera, Psidium sp.") † Guagliumi 1966 * Caraballo 1981 (Venezuela) 	F	N
	Psidium sartorianum <ul style="list-style-type: none"> * Greene 1934 (Costa Rica; host as Calyptranthes tonduzii Donn.) * Stone 1942a (Mexico, Panama; host as Calyptranthes tonduzii Donn. and "arrayan, Psidium sp.") * Baker et al. 1944 (Mexico; host as "arrayan") * Briceno 1975 (Venezuela; host as "guayabo de monte, Psidium sp.") † Zucchi 1978 (host as Calyptranthes tonduzii) * Briceno 1979 (Venezuela; host as Eugenia punicifolia H.B.K.) * Caraballo 1981 (Venezuela) 	F	N
	Psidium savannarum <ul style="list-style-type: none"> * Jiron & Zeledon 1979 (Costa Rica) 	F	N?
	Solanum macranthum <ul style="list-style-type: none"> * Eskafi & Cunningham 1987 (Guatemala) 	F	-
	Spondias mombin <ul style="list-style-type: none"> * Stone 1942a (Panama; host as Spondias sp. nr. lutea) - Guagliumi 1966 (Venezuela) † Caraballo 1981 	F	N

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Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
striata (con.)	Spondias purpurea * Korytkowski & Ojeda 1969 (Peru)	F	N
	Syzygium jambos * Olarte 1980 (Colombia)	F	E
	Syzygium malaccense * Martorell 1939 (Venezuela; host as Jambos malaccensis) † Guagliumi 1966 * Caraballo 1981 (Venezuela)	F	E
	Terminalia catappa * Caraballo 1981 (Venezuela) * Eskafi & Cunningham 1987 (Guatemala)	F	E
submunda Lima	Annonaceae sp. * Lima 1937 (Brazil; host as "pinha vermelha de leite") † Stone 1942a (host as "pinha vermelha de leite") † Zucchi 1978 (host as "pinha vermelha de leite")	F	N?
	Sapotaceae sp. * Lima 1937 (Brazil; host as "muricaí branco") † Stone 1942a (host as "muricaí branco") † Zucchi 1978 (host as "muricaí branco")	F	N?
suspensa (Loew)	Annona cherimola * McAlister 1936 (Florida) † Weems 1965 † Wasbauer 1972	L	N?
	Annona glabra * Swanson & Baranowski 1972 (Florida)	F	N
	Annona reticulata * Sein 1933 (Puerto Rico; fly as unipuncta Sein) † Lima 1934 (fly as unipuncta Sein) * Stone 1942a (Puerto Rico) - U.S. Department of Agriculture 1967a	F	N
	Annona squamosa - U.S. Department of Agriculture 1967a * Swanson & Baranowski 1972 (Florida) * Windeguth et al. 1972 (Florida)	F	N
	Atalantia citroides * Swanson & Baranowski 1972 (Florida)	F	E

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Averrhoa carambola - U.S. Department of Agriculture 1967a * Swanson & Baranowski 1972 (Florida)	F	E
	Bischofes javanica * Ibrahim 1980 (Florida)	F	E
	Blighia sapida * Swanson & Baranowski 1972 (Florida)	F	E
	Britoa acida - U.S. Department of Agriculture 1967a † Wasbauer 1972	F	E
	Canella winteriana * Swanson & Baranowski 1972 (Florida)	F	N
	Capsicum annuum * U.S. Department of Agriculture 1966 (Florida; host as "bell pepper"; larval record) * Swanson & Baranowski 1972 (Florida; host as "bell pepper, C. frutescens")	F	E
	Carica papaya * McAlister 1936 (Florida; fly laboratory reared) † Weems 1965 (fly laboratory reared) - U.S. Department of Agriculture 1967a * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Carissa macrocarpa * McAlister 1936 (Florida; host as C. grandiflora; fly laboratory reared) † Weems 1965 (host as C. grandiflora; fly laboratory reared) * U.S. Department of Agriculture 1968 (Florida; host as C. grandiflora; larval record) * Swanson & Baranowski 1972 (Florida; host as C. grandiflora Mey.) † Wasbauer 1972 (host as C. grandiflora) * Windeguth et al. 1972 (Florida; host as C. grandiflora Mey.)	F	E
	Casimiroa edulis * Swanson & Baranowski 1972 (Florida)	F	E
	Chrysobalanus icaco * Sein 1933 (Puerto Rico; fly as unipuncta Sein) † Lima 1934 (preferred host in Puerto Rico; fly as unipuncta Sein) * Stone 1942a (Puerto Rico)	F	N

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	† Weems 1965 * Swanson & Baranowski 1972 (Florida) * Windeguth et al. 1972 (Florida; minor host)		
	Chrysophyllum cainito * Sein 1933 (Puerto Rico; fly as unipuncta Sein) † Lima 1934 (fly as unipuncta Sein) * Stone 1942a (Puerto Rico) † Weems 1965	F	N
	Chrysophyllum oliviforme * U.S. Department of Agriculture 1968 (Florida) * Swanson & Baranowski 1972 (Florida) * Windeguth et al. 1972 (Florida)	F	N
	Citrofortunella x mitis * McAlister 1936 (Florida; host as Citrus mitis; fly laboratory reared) † Weems 1965 (Florida; host as Citrus mitis) * U.S. Department of Agriculture 1966 (Florida; host as "calamondin"; larval records) * Swanson & Baranowski 1972 (Florida; host as Citrus mitis) † Wasbauer 1972 (host as Citrus reticulata var. austera x Fortunella sp.) * Windeguth et al. 1972 (Florida; host as Citrus mitis) * Ibrahim 1980 (Florida)	F	E
	Citrus aurantiifolia * U.S. Department of Agriculture 1966 (Florida; host as "lime"; larval record) * Swanson & Baranowski 1972 (Florida) * Windeguth et al. 1972 (Florida)	F	E
	Citrus aurantium * Sein 1933 (Puerto Rico; rare host; fly as unipuncta Sein) † Lima 1934 (fly as unipuncta Sein) * Stone 1942a (Puerto Rico) † Weems 1965 * U.S. Department of Agriculture 1966 (Florida; host as "sour orange"; larval records) * Swanson & Baranowski 1972 (Florida)	F	E
	Citrus limetta * Swanson & Baranowski 1972 (Florida)	F	E
	Citrus x limonia * Swanson & Baranowski 1972 (Florida)	F	E

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Citrus maxima * Sein 1933 (Puerto Rico; rare host, fly as unipuncta Sein) † Lima 1934 (fly as unipuncta Sein) * Stone 1942a (Puerto Rico; host as C. grandis (L.) Osbeck) † Weems 1965 (host as C. grandis)	F	E
	Citrus x paradisi - Weems 1965 * U.S. Department of Agriculture 1966 (Florida; host as "grapefruit"; larval records) * Swanson & Baranowski 1972 (Florida)	F	E
	Citrus reticulata * U.S. Department of Agriculture 1967b (Florida; host as "tangerine"; larval record) * Swanson & Baranowski 1972 (Florida)	F	E
	Citrus sinensis * Sein 1933 (Puerto Rico; rare host; fly as unipuncta Sein) † Lima 1934 (fly as unipuncta Sein) * Stone 1942a (Puerto Rico) † Weems 1965 * U.S. Department of Agriculture 1966 (Florida; host as "temple orange" and "sour orange"; larval records) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 (host as sinensis and sinensis var. temple)	F	E
	Citrus x tangelo - U.S. Department of Agriculture 1967b (Florida; host as "tangelo"; larval records) † Wasbauer 1972 (host as C. paradisi x reticulata)	F	E
	Clausena lansium * U.S. Department of Agriculture 1966 (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Coccoloba uvifera * Windeguth et al. 1972 (Florida)	F	N?
	Diospyros discolor * Swanson & Baranowski 1972 (Florida)	F	E
	Diospyros kaki * Swanson & Baranowski 1972 (Florida)	F	E
	Diospyros virginiana - Ibrahim 1980 (Florida (?))	F	N

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Dovyalis caffra - U.S. Department of Agriculture 1967a * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Dovyalis hebecarpa - U.S. Department of Agriculture 1967a † Wasbauer 1972	F	E
	Drypetes lateriflora * Swanson & Baranowski 1972 (Florida)	F	N
	Eriobotrya japonica * U.S. Department of Agriculture 1967b (Florida; host as "loquat"; larval record) * Swanson & Baranowski 1972 (Florida; important host because of fruiting time) † Wasbauer 1972 * Windeguth et al. 1972 (Florida)	F	E
	Eugenia aggregata * Swanson & Baranowski 1972 (Florida)	F	E?
	Eugenia brasiliensis * U.S. Department of Agriculture 1967b (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E?
	Eugenia coronata * Swanson & Baranowski 1972 (Florida)	F	-
	Eugenia ligustrina * Swanson & Baranowski 1972 (Florida)	F	N
	Eugenia luschnathiana * U.S. Department of Agriculture 1966 (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	-
	Eugenia uniflora * McAlister 1936 (Florida; fly laboratory reared) † Weems 1965 (Florida; preferred host) * U.S. Department of Agriculture 1966 (Florida; host as "Surinam cherry"; larval records) * Swanson & Baranowski 1972 (Florida; major host) † Wasbauer 1972 * Windeguth et al. 1972 (Florida)	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Ficus altissima	F	E
	* Swanson & Baranowski 1972 (Florida)		
	Ficus carica	F	E
	* Swanson & Baranowski 1972 (Florida)		
	Flacourtia indica	F	E
	* U.S. Department of Agriculture 1967b (Florida; host as "Governors plum")		
	† Wasbauer 1972		
	* Windeguth et al. 1972 (Florida)		
	Fortunella crassifolia	F	E
	* Swanson & Baranowski 1972 (Florida)		
	Fortunella japonica	L	E
	* McAlister 1936 (Florida; host as Citrus japonica)		
	† Wasbauer 1972		
	Fortunella margarita	F	E
	* Sein 1933 (Puerto Rico; fly as unipuncta Sein)		
	† Lima 1934 (unfavorable host in Puerto Rico; fly as unipuncta Sein)		
	* Stone 1942a (Puerto Rico)		
	† Weems 1965		
	* U.S. Department of Agriculture 1966 (Florida; host as "kumquat"; larval records)		
	* Swanson & Baranowski 1972 (Florida)		
	† Wasbauer 1972		
	* Windeguth et al. 1972 (Florida)		
	Garcinia sp.	F	E
	- Weems 1965 (Greater Antilles)		
	Garcinia livingstonei	F	E
	* U.S. Department of Agriculture 1967b (Florida; larval record)		
	* Swanson & Baranowski 1972 (Florida)		
	† Wasbauer 1972		
	Garcinia pictorius	F	E
	* Swanson & Baranowski 1972 (Florida; host as G. tinctoria (C.C.) Wight)		
	Litchi chinensis	I	E
	* U.S. Department of Agriculture 1967b (Florida; larval record)		
	* Swanson & Baranowski 1972 (Florida)		
	† Wasbauer 1972		

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Lycopersicon esculentum * U.S. Department of Agriculture 1966 (Florida; host as "tomato"; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	I	E
	Malpighia glabra - Weems 1965 (Florida) * U.S. Department of Agriculture 1967b (Florida; host as "Barbados cherry") * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 * Windeguth et al. 1972 (Florida)	F	N
	Malus sylvestris * Swanson & Baranowski 1972 (Florida; host as "apple, M. sylvestris," may refer to M. domestica")	F	E
	Mangifera indica - Weems 1965 (Florida; larval records) * U.S. Department of Agriculture 1966 (Florida; host as "mango") * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 * Windeguth et al. 1972 (Florida; minor host)	F	E
	Manilkara bahamensis * Swanson & Baranowski 1972 (Florida)	F	N
	Manilkara zapota * Sein 1933 (Puerto Rico; host as Sapota achras Mill.; fly as unipuncta Sein) † Lima 1934 (host as Sapota achras Mill.; fly as unipuncta Sein) † Weems 1965 (host as Achras zapota L.) * U.S. Department of Agriculture 1966 (Florida; host as "sapodilla"; larval record) * Swanson & Baranowski 1972 (Florida; host as Achras zapota L.) * Windeguth et al. 1972 (Florida; host as Achras zapota L.) * Whervin 1974 (Jamaica)	F	E
	Mimusops roxburghiana * Swanson & Baranowski 1972 (Florida)	F	E
	Momordica balsamina - Weems 1965 (Florida) † Wasbauer 1972	F	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Momordica charantia * Swanson & Baranowski 1972 (Florida; host as Mormodica charantia)	F	E
	Muntingia calabura * Swanson & Baranowski 1972 (Florida)	F	N
	Murraya paniculata * U.S. Department of Agriculture 1968 (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Myrcianthes fragrans * Swanson & Baranowski 1972 (Florida)	F	-
	Myrciaria cauliflora * U.S. Department of Agriculture 1967b (Florida; larval record) * Swanson & Baranowski 1972 (Florida)	F	-
	Myrciaria glomerata * Swanson & Baranowski 1972 (Florida)	F	-
	Persea americana * U.S. Department of Agriculture 1966 (Florida; host as "avocado"; larval records) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	I	E
	Phoenix dactylifera * Windeguth et al. 1972 (Florida)	F	E
	Pimenta dioica * Swanson & Baranowski 1972 (Florida) * Whervin 1974 (Jamaica)	F	N
	Pouteria campechiana - U.S. Department of Agriculture 1967a * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 * Windeguth et al. 1972 (Florida)	F	N
	Prunus sp. * Stone 1942a (Puerto Rico; host as "black ox-heart cherry") - Weems 1965 (Florida)	L	E

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Prunus americana * McAlister 1936 (Florida) - U.S. Department of Agriculture 1967a † Wasbauer 1972	L	E
	Prunus persica - Weems 1965 (Florida; preferred host) * U.S. Department of Agriculture 1966 (Florida; host as "peach"; larval records) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 * Windeguth et al. 1972 (Florida)	F	E
	Prunus persica var. nucipersica * U.S. Department of Agriculture 1968 (Florida; host as P. persica nectarina; larval record) * Swanson & Baranowski 1972 (Florida; host as var. nectarina) † Wasbauer 1972 (host as var. nectarina)	F	E
	Pseudanmomis umbellulifera - U.S. Department of Agriculture 1967a * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	N
	Psidium cattleianum * Stone 1942a (Puerto Rico) - Weems 1965 (Florida) * U.S. Department of Agriculture 1966 (Florida; host as "cattley guava"; larval records) * Swanson & Baranowski 1972 (Florida; major host) † Wasbauer 1972 * Ibrahim 1980 (Florida; host as P. littorale var. longipes)	F	E
	Psidium friedrichsthalianum * U.S. Department of Agriculture 1967b (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Psidium guajava * Sein 1933 (Puerto Rico; fly as unipuncta Sein) * Lima 1934 (Puerto Rico; preferred host; fly as unipuncta Sein) * McAlister 1936 (Florida) * Stone 1942a (Puerto Rico; preferred host) † Weems 1965 (Florida; preferred host) * U.S. Department of Agriculture 1966 (Florida; host as "guava"; larval records)	F	N

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	<ul style="list-style-type: none"> * U.S. Department of Agriculture 1967b (Florida; host as "guava"; larval records) * Swanson & Baranowski 1972 (Florida; major host) † Wasbauer 1972 * Windeguth et al. 1972 (Florida) * Whervin 1974 (Jamaica) 		
	Psidium guineense - Weems 1965 (Greater Antilles)	F	N
	Punica granatum <ul style="list-style-type: none"> * U.S. Department of Agriculture 1967b (Florida; host as "pomegranate"; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 	F	E
	Pyrus communis <ul style="list-style-type: none"> * U.S. Department of Agriculture 1967b (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 	F	E
	Pyrus pyrifolia <ul style="list-style-type: none"> * Swanson & Baranowski 1972 (Florida) 	F	E
	Rheedia aristata <ul style="list-style-type: none"> * Swanson & Baranowski 1972 (Florida) 	F	E?
	Rubus sp. <ul style="list-style-type: none"> * Swanson & Baranowski 1972 (Florida) 	F	-
	Severinia buxifolia <ul style="list-style-type: none"> * U.S. Department of Agriculture 1966 (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 	F	E
	Spondias dulcis <ul style="list-style-type: none"> * Swanson & Baranowski 1972 (Florida; host as S. cytherea Sonn.) 	F	E
	Spondias mombin <ul style="list-style-type: none"> * Kisliuk & Cooley 1933 (Haiti) * Stone 1942a (Puerto Rico) - Weems 1965 	F	N
	Spondias purpurea <ul style="list-style-type: none"> * McAlister 1936 (Florida) - U.S. Department of Agriculture 1967a † Wasbauer 1972 	L	E

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Synsepalum dulcificum - Seymour 1967 * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Syzygium cumini * Swanson & Baranowski 1972 (Florida)	F	E
	Syzygium jambos * Sein 1933 (Puerto Rico; host as Jambos jambos; fly as unipuncta Sein) * Kisliuk & Cooley 1933 (Dominican Republic; host as "rose apple") † Lima 1934 (host as Jambos jambos, preferred host in Puerto Rico; fly as unipuncta Sein) * Stone 1942a (Haiti, Puerto Rico; preferred host, host as Eugenia jambos) † Weems 1965 (Florida; preferred host) * U.S. Department of Agriculture 1966 (Florida; host as "roseapple"; larval records) * Swanson & Baranowski 1972 (Florida; major host) † Wasbauer 1972 * Whervin 1974 (Jamaica; preferred host)	F	E
	Syzygium malaccense - Stone 1942a (host as Eugenia malaccensis) † Weems 1965 * Whervin 1974 (Jamaica; preferred host)	F	E
	Syzygium samarangense * U.S. Department of Agriculture 1966 (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Terminalia catappa * Sein 1933 (Puerto Rico; fly as unipuncta Sein) † Lima 1934 (Preferred host in Puerto Rico; fly as unipuncta Sein) * Stone 1942a (Puerto Rico; preferred host) † Weems 1965 (preferred host) * Swanson & Baranowski 1972 (Florida; major host) † Wasbauer 1972 * Windeguth et al. 1972 (Florida) * Whervin 1974 (Jamaica)	F	E

Part 3

Hosts of Anastrepha by Anastrepha species (con.)

<u>ANASTREPHA</u>	<u>HOST</u>	<u>R</u>	<u>OD</u>
suspensa (con.)	Terminalia muelleri * U.S. Department of Agriculture 1968 (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972	F	E
	Trevesia palmata * Swanson & Baranowski 1972 (Florida)	F	E
	Triphasia trifolia * U.S. Department of Agriculture 1966 (Florida; larval record) * Swanson & Baranowski 1972 (Florida) † Wasbauer 1972 * Ibrahim 1980 (Florida)	F	-
turicai Blanchard	Prunus persica * Blanchard 1961 (Argentina; host as "durazno")	F	E
turpiniae Stone	Dovyalis hebecarpa * Stone 1942a (Panama)	L	E
	Turpinia occidentalis * Stone 1942a (Panama; host as T. paniculata Vent.)	F	N
xantho- chaeta Hendel	Passiflora sp. * Zucchi 1978 (Brazil) † Malavasi et al. 1980	F	N
zeteki Greene	Chrysophyllum panamense * Greene 1934 (Panama) * Stone 1942a (Panama)	F	N
zuelaniae Stone	Mangifera indica * Stone 1942a (Panama)	L	E
	Zuelania guidonia * Stone 1942a (Panama) * Bush 1962 (Mexico)	F	N

Part 4

Hosts of Anastrepha by Host Genus and Species

Record type (R) codes include: F = field-infested host, L = laboratory-infested host, I = probable incidental infestation, and Q = questionable record.

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
(Unknown)	Undetermined	alandy	bondari	F
(Unknown)	Undetermined	amora de leite	bondari fraterculus	F F
(Unknown)	Undetermined	bacumucha	leptozona parallela	F F
(Unknown)	Undetermined	cabeluda	fraterculus	F
(Unknown)	Undetermined	chirica	anomala	F
(Unknown)	Undetermined	grosella	fraterculus obliqua	F F
(Unknown)	Undetermined	mapeba branca	leptozona	F
(Unknown)	Undetermined	pau macaco	leptozona	F
(Annonaceae)	Undetermined	pinha vermelha de leite	fraterculus submunda	F F
(Moraceae)	Undetermined	-	serpentina	F
(Myrtaceae)	Undetermined	-	alveata	F
(Myrtaceae)	Undetermined	porongo	fraterculus	F
(Sapotaceae)	Undetermined	-	pulchra	F
(Sapotaceae)	Undetermined	bacupary mirim	fraterculus	F
(Sapotaceae)	Undetermined	cotia	serpentina	F
(Sapotaceae)	Undetermined	gonzigon	serpentina	F
(Sapotaceae)	Undetermined	muricaí branco	submunda	F
Acacia (Fabaceae)	sp.	-	obliqua	Q
Achras	sapota See Manilkara zapota and Pouteria sapota			

Part 4

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Achras (con.)	zapota See Manilkara zapota			
Alchornea (Euphorbiaceae)	latifolia Sw.	pozol	fraterculus obliqua serpentina	F F F
Amygdalus	persica L. See Prunus persica			
Anacardium (Anacardiaceae)	occidentale L.	caju cashew maranon mery	sp. chiclayae fraterculus ludens obliqua	F Q F F F
Ancistrothyrus (Flacourtiaceae)	tessmanni Harms	-	duckei	F
Annona (Annonaceae)	cherimola Mill.	cherimoya Jamaica apple	fraterculus ludens minensis obliqua suspensa	F F Q L L
	glabra L.	alligator-apple Anon de puerco pond apple	distincta fraterculus obliqua serpentina suspensa	L L L F F
	hayesii Safford	-	obliqua	F
	humboldtiana H.B.K. See A. humboldtii			
	humboldtii Dunal	-	fraterculus	F
	muricata L.	catoche graviola guanabana soursop	sp. distincta fraterculus obliqua striata	F Q F L F

Part 4

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Annona (con.)	reticulata L.	annona	fraterculus	Q
		corazon	ludens	F
		custard apple	suspensa	F
	squamosa L.	anona	fraterculus	F
		sugar apple	ludens	F
			obliqua	L
			suspensa	F
Atalantia (Rutaceae)	citroides Pierre	-	suspensa	F
Averrhoa (Oxalidaceae)	carambola L.	carambola star fruit	fraterculus obliqua	F F
Bischofes (Euphorbiaceae)	javanica Blume	-	suspensa	F
Blighia (Sapindaceae)	sapida Koen.	akee	suspensa	F
Britoa (Myrtaceae)	acida Berg	-	suspensa	F
Brosimum (Moraceae)	alicastrum Sw.	breadnut jushte ramon	obliqua	F
Bumelia (Sapotaceae)	angustifolia Nutt. See B. celastrina			
	celastrina H.B.K.	la coma	pallens	F
	laetevirens Hemsley	coma real	ludens	L
		tempixtle	serpentina	F
	obtusifolia ssp. buxifolia (Roem. & Schult.) Cronq.	malarmo pajuil	striata	F
	spiniflora A.DC.	la coma saffron-plum	pallens	Q

Part 4

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Byrsonima (Malpighiaceae)	crassifolia (L.) Kunth	nance	sp. serpentina	F F
Calocarpum	mamosum (L.) Pierre See Pouteria sapota sapota (Jacq.) Merr. See Pouteria sapota viride Pittier See Pouteria viridis			
Calyptranthes	tonduzii Donn. See Psidium sartorianum			
Campomanesia (Myrtaceae)	obscura Berg	guabiroba	fraterculus	F
	xanthocarpa Berg	guabiroba do campo	fraterculus	F
Canella (Canellaceae)	winteriana (L.) Gaertn.	wild cinnamon	suspensa	F
Capsicum (Solanaceae)	annuum L.	bell pepper chili pepper sweet pepper	distincta ludens obliqua serpentina suspensa	L L L L F
	frutescens var. grossum Bailey See C. annuum			
Carica (Caricaceae)	papaya L.	papaya	ludens obliqua suspensa	F L F
Carissa (Apocynaceae)	grandiflora (E. Mey.) A.DC. See C. macrocarpa			

Part 4

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Carissa (con.)	macrocarpa (Eckl.) A.DC.	Natal plum	ludens obliqua serpentina suspensa	L L L F
Casimiroa (Rutaceae)	edulis Llave & Lex.	matasano white sapote zapote blanco	ludens suspensa	F F
	tetrameria Millsp.	-	ludens	F
Chaenomeles	sp. See Cydonia oblonga			
Chrysobalanus (Rosaceae)	icaco L.	beach plum cocoa-plum hicaco icaco	sp. obliqua suspensa	F L F
	pellocarpus Meyer See C. icaco			
Chrysophyllum (Sapotaceae)	cainito L.	caimito star apple	distincta fraterculus leptozona macrura margarita panamensis serpentina steyskali striata suspensa	F Q F F F F F F F F
	oliviforme L.	satin leaf	suspensa	F
	panamense Pittier	cafecillo small star-apple	panamensis serpentina zeteki	F F F
	panamense var. macrophyllum Standley See C. panamense			

Part 4

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Citrofortunella (Rutaceae)	x mitis (Blanco) J. Ingram & H. Moore	calamondin	sp. obliqua serpentina suspensa	F L F F
Citrullus (Cucurbitaceae)	lanatus (Thunb.) Matsum. & Nakai var. lanatus	melancia patilla watermelon	grandis	F
	vulgaris Schrad. See C. lanatus var. lanatus			
Citrus (Rutaceae)	sp.	-	alveatoides	Q
	sp.	-	chiclayae	Q
	sp.	-	daciformis	Q
	sp.	-	punctata	Q
	sp.	-	rosilloi	Q
	sp.	-	schultzi	Q
	sp.	laranja	grandis	Q
	aurantiifolia (Christm.) Swingle	lima chica lima grande lime limon imon verde	distincta fraterculus ludens suspensa	L Q F F
	aurantium L.	laranja azeda naranja agria sour orange	fraterculus grandis ludens minensis obliqua serpentina suspensa	F Q F Q F F F
	bigaradia See C. aurantium			
	decumana Murr. See C. maxima			

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Citrus (con.)	deliciosa Tenore			
	See C. reticulata			
	grandis (L.) Osbeck			
	See C. maxima and			
	C. x paradisi			
	japonica Thunb.			
	See Fortunella			
	japonica			
	limetta Risso	lima palestina	fraterculus	F
		sweet lime	ludens	F
			obliqua	F
			suspensa	F
	x limonia Osbeck	limao cravo	sp.	F
		Rangpur lime	ludens	Q
			suspensa	F
	madurensis Lour.			
	See Citrofortunella x			
	mitis			
	maxima (Burm.) Merr.	pomelo	fraterculus	F
		pummelo	ludens	F
		shaddock	obliqua	Q
		toranja	serpentina	F
			suspensa	F
	medica L.	cidra	ludens	F
		citron		
	mitis Blanco			
	See Citrofortunella x			
	mitis			
	nobilis Lour.			
	See C. reticulata			
	x paradisi Macfad.	grapefruit	fraterculus	F
		toranja	ludens	F
			obliqua	F
			serpentina	F
			suspensa	F
	paradisi x reticulata			
	See C. x tangelo			

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Citrus (con.)	reshni (Engl.) Tanaka			
	See C. reticulata			
	reticulata Blanco	mandarin orange	sp.	F
		mexerica	fraterculus	F
		tangerine	ludens	F
			serpentina	F
			suspensa	F
	reticulata var. austera			
	x Fortunella sp.			
	See Citrofortunella x			
	mitis			
	sinensis (L.) Osbeck	laranja doce	distincta	Q
		naranja dulce	fraterculus	F
Clausena (Rutaceae)		naranjo dulce	ludens	F
		navel orange	obliqua	F
		sweet orange	serpentina	F
		Valencia orange	striata	F
			suspensa	F
	sinensis var. temple			
	See C. sinensis			
	x tangelo J. Ingram &	tangelo	ludens	F
	H. Moore		suspensa	F
	vulgaris Risso			
	See C. aurantium			
	lansium (Lour.) Skeels	wampi	suspensa	F
Coccoloba (Polygonaceae)	uvifera (L.) L.	sea grape	suspensa	F
Coffea (Rubiaceae)	sp.	cafe	fraterculus	F
		coffee		
	arabica L.	bagas de cafe	bahiensis	F
		cafe	fraterculus	F
		coffee	ludens	F
			obliqua	F
			sororcula	F

Part 4

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Coffea (con.)	liberica Hiern	cafe coffee	fraterculus	F
Cordia (Boraginaceae)	sp.	manjack	obliqua	Q
Crataegus (Rosaceae)	sp.	manzanilla	fraterculus leptozona obliqua	F F F
Cucumis (Cucurbitaceae)	melo L.	melon	grandis	Q
	sativus L.	cucumber pepino	grandis	F
Cucurbita (Cucurbitaceae)	sp.	calabaza squash	ludens	L
	maxima Duch.	-	grandis	F
	moschata (Duch.) Poir.	auyama	grandis	F
	pepo L.	abobora calabaza pumpkin	grandis	F
Cydonia (Rosaceae)	oblonga Mill.	membrillo quince	chiclayae fraterculus ludens serpentina	Q F F F
Cyphomandra (Solanaceae)	betacea (Cav.) Sendt.	tree tomato	ludens	L
Diospyros (Ebenaceae)	digyna Jacq.	black zapote	obliqua serpentina striata	F F F
	discolor Willd.	velvet apple	suspensa	F

Part 4

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Diospyros (con.)	kaki L. f.	caco	sp.	F
		caqui	fraterculus	F
		Japanese persimmon	ludens	F
		kaki	obliqua	L
			suspensa	F
	virginiana L.	American persimmon	suspensa	F
Dovyalis (Flacourtiaceae)	caffra (Hook. f. & Harv.) Warb.	kei apple	suspensa	F
	hebecarpa (Gardn.) Warb.	Ceylon gooseberry ciruela del gobernador	antunesi	F
			distincta	L
			fraterculus	F
			obliqua	F
			serpentina	F
			suspensa	F
			turpiniae	L
Drypetes (Euphorbiaceae)	lateriflora (Su.) Krug.	Guiana plum	suspensa	F
Endopleura (Humiriaceae)	uchi Hug. Cuatr.	uxi	sp.	F
Eriobotrya (Rosaceae)	japonica (Thunb.) Lindl.	ameixa japonesa	fraterculus	F
		loquat	ludens	L
		nispero del Japon	minensis	F
			obliqua	F
			suspensa	F
Eugenia (Myrtaceae)	sp.	-	daciformis	Q
	sp.	-	fraterculus	F
	sp.	palillo	chiclayae	Q
			fraterculus	F
	aggregata (Vell.) Kiaersk.	cherry of the Rio Grande	suspensa	F
	brasiliensis Lam.	grumichama grumixama	fraterculus	F
			suspensa	F
	capsium	-	distincta	Q

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Eugenia (con.)	coloradensis Standley	guayabito de monte	fraterculus	F
	coronata Schum. & Thonn.	-	suspensa	F
	jambos L. See Syzygium jambos			
	javanica Lam. See Syzygium samarangense			
	ligustrina (Sw.) Willd.	-	suspensa	F
	luschnathiana Kotzsch	pitomba	suspensa	F
	malaccensis L. See Syzygium malaccense			
	nesiotica Standley	- guayabillo	distincta obliqua	F F
	punicifolia (H.B.K.) DC. See Psidium sartorianum			
	tomentosa	-	fraterculus	Q
	uniflora L.	pitanga Surinam cherry	fraterculus obliqua serpentina sororcula striata suspensa	F L L F L F
	uvalha Camb.	uvaia	fraterculus	F
	variabilis Baillon	guarobeiera guarobeira	bahiensis bondari	F F
	sellowiana (Berg) Berg	falso guayabo	sp. fraterculus ludens	F F L
Feijoa (Myrtaceae)				
Ficus (Moraceae)	sp.	fig	ludens	L
	sp.	higo jopoy jopoy fig	serpentina	F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Ficus (con.)	altissima Blume	-	suspensa	F
	carica L.	fig	fraterculus	F
		figos	obliqua	L
			suspensa	F
Flacourtia (Flacourtiaceae)	indica (Burm.) Merr.	Governor's plum	suspensa	F
Fortunella (Rutaceae)	sp.	kumquat	serpentina	L
	crassifolia Swingle	Meiwa kumquat	suspensa	F
	japonica (Thunb.) Swingle	round kumquat	fraterculus	F
			obliqua	L
			suspensa	L
	margarita (Lour.) Swingle	kumquat	suspensa	F
Fragaria (Rosaceae)	vesca L.	morango strawberry	fraterculus	F
Garcinia (Clusiaceae)	sp.	garcinia	suspensa	F
	livingstonei Anders.	imbe	suspensa	F
	pictorius (Rosb.) D'Arcy	-	suspensa	F
	tinctoria (C.C.) Wight See G. pictorius			
Genipa (Rubiaceae)	americana L.	genipapeiro	antunesi	F
Geoffraea (Fabaceae)	striata (Willd.) Mor. See G. superba			
	superba H. & B.	taque	obliqua	F
Godmania (Bignoniaceae)	aesculifolia (H.B.K.) Standley	cacho de cabro cacho de venado	obliqua	F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Godmania (con.)	macrocarpa (Benth.) Hemsl. See G. aesculifolia			
Helicostylis (Moraceae)	poeppigiana Trec.	amora preta	bahiensis phaeoptera	F F
Helixanthostylis	poppigiana See Helicostylis poeppigiana			
Hippomane (Euphorbiaceae)	mancinella L.	limoncillo manzanilla de playa	acris	F
Hylocereus (Cactaceae)	spp.	pitayas	ludens	L
Indigofera (Fabaceae)	tinctoria L.	anil indigo	sp.	F
Inga (Fabaceae)	sp.	guamo de rio	distincta	F
	affinis DC.	guamo	distincta	F
	cinnamomea Benth.	inga-acu	sp.	F
	edulis C. Mart.	inga	distincta fraterculus	F F
	feuillei DC.	-	distincta	F
	goldmanii Pittier	-	distincta	F
	hayesii Benth.	-	distincta	F
	inicuil Cham. & Schlecht.	jinicuil	distincta ludens	F F
	jinicuil See I. inicuil			
	laurina Willd. See I. ruiziana			

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Inga (con.)	lushnathiana Benth.	-	distincta	F
	marginata Willd.	cimbra potro guamo caraota guavo de mono	distincta	F
	micheliana Harms	chalum	distincta	F
		cushin	ludens	F
			obliqua	Q
	nobilis Willd.	-	distincta	F
	panamensis Seem. See I. sapindoides			
	paterna Harms	paterna	distincta	F
			obliqua	Q
	pilosula (Rich.) Macbride	-	distincta	F
	punctata Willd.	-	distincta	F
	ruiziana G. Don.	caspirol	distincta	F
			obliqua	Q
	sapindoides Willd.	-	distincta	F
	setifera DC. See I. pilosula			
	spectabilis Willd.	-	distincta	F
	spuria Humb. & Bonpl.	-	distincta	F
	weberbaueri Harms	guabo pardo	distincta	F
Jambos	jambos L. See Syzygium jambos			
	malaccensis L. See Syzygium malaccensis			
Jambosia (Myrtaceae)	sp.	jambo	obliqua	F

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<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Juglans (Juglandaceae)	australis Grisebach	nogal criollo	sp.	F
	neotropica Diels	nogal nuez	bahiensis fraterculus	F F
	regia L.	English walnut nogal nuez	bahiensis fraterculus ludens	F F L
	standleyana Pittier			
	See Pouteria			
	stylosa			
Labatia	panamensis (Woodson)	-	anomala	F
	Markgraf		serpentina	F
Lacmellea (Apocynaceae)	siceraria (Mol.) Standley	calabash camasa	grandis	F
Lagenaria (Cucurbitaceae)	spp.	pitahaya	ludens	L
Lemaireocereus (Cactaceae)	chinensis Sonn.	lychee	suspensa	I
Litchi (Sapindaceae)	sp. See Pouteria sp.			
Lucuma	caimito Ruiz & Pav. See Pouteria caimito			
	cainito A.DC. See Pouteria cainito			
	multiflora A.DC. See Pouteria multiflora			
	nervosa A.DC. See Pouteria campechiana			
	obovata H.B.K. See Pouteria obovata			

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Lucuma (con.)	salicifolia H.B.K. See Pouteria campechiana			
	standleyana Pittier See Pouteria hypoglauca			
Lycopersicon (Solanaceae)	esculentum Mill.	tomate tomato	sp. fraterculus ludens obliqua serpentina suspensa	F Q L L L I
Malpighia (Malpighiaceae)	sp.	cereja	fraterculus	F
	glabra L.	Barbados cherry cerezo semeruco	obliqua suspensa	F F
	punicifolia L. See M. glabra			
Malus (Rosaceae)	sp.	-	obliqua	L
	domestica Borkh.	apple maca manzano	distincta fraterculus ludens serpentina	L F I F
	pumila Mill.	apple manzana paradise apple	fraterculus ludens	L F
	sylvestris Mill. (See also M. domestica)	apple crabapple	obliqua suspensa	F F
Mammea (Clusiaceae)	americana L.	abrigo-do-Para mamey mammee apple sapote domingo zapote de Santo Domingo	ludens obliqua serpentina	F Q F

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<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Mangifera (Anacardiaceae)	indica L.	mango	bistrigata	Q
			chiclayae	Q
			distincta	F
			flavipennis	L
			fraterculus	F
			ludens	F
			nigrifascia	F
			obliqua	F
			pseudo-	F
			parallela	
			serpentina	F
			striata	F
			suspensa	F
			zuelaniae	L
Manihot (Euphorbiaceae)	sp.	cassava	montei	F
	aipi Pohl			
	See M. esculenta			
	dulcis (Gmel.) Pax			
	See M. esculenta			
	esculenta Crantz	cassava	manihoti	F
		mandioca	montei	F
		yuca	obliqua	Q
		yuca amarga	pickeli	F
Manilkara (Sapotaceae)	achras L.		striata	F
	bahamensis (Baker)			
	Lam. & Meeuse	wild dilly	suspensa	F
	elata Allem.			
		Brazilian milk tree	serpentina	F
		massaranduba		
	emarginata Britt.	-	nigrifascia	F
	zapota (L.) P. Royen	chico-zapote	antunesi	F
		naseberry	flavipennis	L
		nispero	fraterculus	F
		sapodilla	ludens	L
		sapoti	nigrifascia	F
		sapotiseiro	obliqua	F
			ocresia	F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Manilkara (con.)	zapotilla (Jacq.) Gilly See M. zapota		serpentina striata suspensa	F L F
Mastichodendron (Sapotaceae)	capiri (A.DC.) var. tempisque (Pittier) Cronq.	alligator-apple tempeshquite tempisque	fraterculus ludens serpentina	F F F
Matisia	cordata H. & B. See Quararibea cordata			
Micropholis (Sapotaceae)	mexicana Gilly	baricoco	leptozonea serpentina	F F
Mimusops (Sapotaceae)	coriacea Miq. emarginata Britt. See Manilkara emarginata roxburghiana Wight.	abricoteiro - -	serpentina suspensa	F F
Momordica (Cucurbitaceae)	balsamina L. charantia L.	balsam apple wild balsam apple	suspensa suspensa	F F
Muntingia (Elaeocarpaceae)	calabura L.	capulin	suspensa	F
Murraya (Rutaceae)	paniculata (L.) Jack	orange jasmine	suspensa	F
Musa (Musaceae)	sp.	banana	ludens	L

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<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Myrcia (Myrtaceae)	jaboticaba Baill.	jaboticaba	fraterculus	F
	popayanensis Hieron.	arrayan	fraterculus striata	F F
Myrcianthes (Myrtaceae)	fragrans (Sw.) McVaugh	-	suspensa	F
Myrciaria (Myrtaceae)	sp.	jaboticabeira da mata	minensis	F
	cauliflora (Mart.) Berg	jaboticaba	sp. suspensa	F F
	glomerata Berg	-	suspensa	F
Myrtpsidia	pommifera See Psidium guajava			
Opuntia (Cactaceae)	spp.	tunas	ludens	L
Parmentiera (Bignoniaceae)	aculeata (Kunth) Seeman	cuachilote	sp.	F
	edulis DC. See P. aculeata			
Passiflora (Passifloraceae)	sp.	-	kuhlmanni	F
	sp.	-	lutzi	F
	sp.	amapola maypop	chiclayae	F
	sp.	maracuja silvestre	dissimilis	F
	sp.	maracuja-do-mato	xanthochaeta	F
	alata Dryander	maracuja grande	pseudo- parallela	F

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<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Passiflora (con.)	ambigua Hemsl.	-	pallidi- pennis	F
	caerulea L.	maracuya	sp.	F
		mburucuya	mburucuyae	F
		pasionaria	pseudo- parallela	F
	edulis Sims	granadilla	fraterculus	Q
		maracuja	ludens	F
		maracuja redondo	pseudo- parallela	F
		passionfruit	striata	Q
	laurifolia L.	yellow water lemon	ethalea	F
	ligularis A.L. Juss.	granadilla	pseudo- parallela	F
	ovalis Vell.	-	kuhlmanni	F
	quadrangularis L.	granadilla maracuja	consobrina	F
			ethalea	F
			limae	F
			obliqua	F
			pallidi- pennis	F
			pseudo- parallela	F
	seemanni Griseb.	-	pallidi- pennis	F
	vitifolia Kunth	-	passiflorae	F
Persea (Lauraceae)	americana Mill.	abacate	fraterculus	F
		aguacate	ludens	F
		avocado	serpentina	F
			suspensa	I
Phaseolus (Fabaceae)	sp.	string bean	obliqua	L
Phoenix (Arecaceae)	dactylifera L.	date palm	suspensa	F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Phyllanthus (Euphorbiaceae)	acidus (L.) Skeels	Indian gooseberry	fraterculus	L
Physalis (Solanaceae)	sp.	husk tomato	ludens	L
Phytocalyx	sp. See Eugenia sp.			
Pimenta (Myrtaceae)	dioica (L.) Merr.	allspice pimento	suspensa	F
Platonia (Clusiaceae)	esculenta (Arruda) Rickett & Stafleu insignis Mart. See P. esculenta	bacuri	sp.	F
Pouteria (Sapotaceae)	sp.	-	leptozona	F
	sp.	aca	bondari	F
	sp.	chico cimarron	serpentina	F
	sp.	guapeba branca	benjamini	F
	caimito (Ruiz & Pav.) Radlk.	abieiro abio	leptozona serpentina	F F
	campechiana (Kunth) Baehni	abio canistel egg fruit huevo vegetal Ti-Es yellow sapote zapote amarillo	distincta leptozona obliqua sagittata serpentina suspensa	L F L F F F
	hypoglauca (Standley) Baehni	socavitae socavite	aphelo- centema serpentina	F F
	lactescens (Vell.)	-	macrura	F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Pouteria (con.)	mammosa (L.) Pierre See P. sapota			
	multiflora (A.DC.) Baehni	jacana	obscura	F
	obovata H.B.K.	lucuma	fraterculus serpentina	F F
	sapota (Jacq.) Moore & Stearn	mamey mamey de tierra sapote zapote zapote colorado	ludens obliqua serpentina	F F F
	stylosa (Pierre) Dubard	-	flavipennis serpentina	F F
	torta (Mart.) Radlk.	-	barnesi	F
	viridis (Pittier) Cronq.	injerto	obliqua serpentina striata	F F F
Pradosia	lactescens (Vell.) Kuhlmann See Pouteria lactescens			
Prunus (Rosaceae)	sp.	ameixa preta	fraterculus	F
	sp.	California cherry	ludens serpentina	L L
	sp.	damasco	fraterculus schultzi	F Q
	sp.	plum	ludens	Q
	sp.	wild plum	suspensa	L
	sp.	yellow plum	obliqua	L
	americana Marsh.	wild plum	obliqua suspensa	L L
	amygdalus Batsch See P. dulcis			

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Hosts of Anastrepha by Host Genus and Species (con.)

HOST GENUS (HOST FAMILY)	HOST SPECIES	HOST COMMON NAME	ANASTREPHA	R
Prunus (con.)	armeniaca L.	apricot	fraterculus ludens	F F
	arnoldiana Rehder	-	obliqua	F
	capuli Cav.	capulin cherry ceresa capulin	fraterculus obliqua	F F
	domestica L.	ameixa ciruelo cultivated plum	sp.	F
	dulcis (Mill.) Webb	almond	obliqua	F
	persica (L.) Batsch	duraznero durazno melocotonero peach pecego	chiclayae	Q
			daciformis	F
			fraterculus	F
			ludens	F
			minensis	F
			obliqua	L
			schultzi	Q
			serpentina	F
			striata	F
suspensa			F	
turicai			F	
persica var. nectarina See P. persica var. nucipersica				
persica var. nucipersica (Suckow) Schneid.	nectarine	suspensa	F	
salicina Lindl.	ciruela Japanese plum	fraterculus obliqua	Q F	
Pseudanmomis (Myrtaceae)	umbellulifera (H.B.K.) Kausel	-	suspensa	F
Psidium (Myrtaceae)	sp.	-	ornata	Q
	sp.	guayabo	daciformis	F
	acutangulum DC.	araca-pera	striata	F

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Psidium (con.)	araca Raddi See P. guineense			
	cattleianum Sabine	cattley guava guayaba fresa guayabo peruano guayabo sabanero strawberry guava	fraterculus ludens obliqua striata suspensa	F L L F F
	cattleianum var. littorale (Raddi) Fosb.	yellow strawberry guava	fraterculus ludens obliqua striata	F F F F
	friedrichsthalianum (Berg) Ndz.	cas Costa Rican guava guayabo de agua	striata suspensa	F F
	guajava L.	goiaba guava guayaba guayabo	antunesi bistrigata chiclayae fraterculus grandis lathana ludens minensis obliqua ocresia ornata parishi pseudo- parallela punctata schultzi serpentina sororcula striata suspensa	F F Q F I F F F F F F F Q F F F F F F
	guineense Sw.	araca araxa Brazilian guava guayaba de sabana	bistrigata fraterculus striata suspensa	F F F F
	littorale Raddi See P. cattleianum var. littorale			
	littorale var. longipes See P. cattleianum			

Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Psidium (con.)	lucidum			
	See P. luridum			
	luridum (Spr.) Burr.	Chinese guava	fraterculus	F
	pomeriferum			
	See P. guajava			
	sartorianum (Berg) Ndz.	arrayan guayabita de monte guayabo de monte	fraterculus striata	F F
	savannarum Donn. Sm.	guisaro	striata	F
Punica (Punicaceae)	granatum L.	granada pomegranate	fraterculus	F
			ludens	F
			obliqua	L
			suspensa	F
Pyrus (Rosaceae)	communis L.	pear pera	fraterculus	F
			ludens	F
			obliqua	F
			ornata	F
			serpentina	F
			suspensa	F
	communis L. x P. pyrifolia	Kieffer pear	obliqua	L
	malus L. See Malus domestica			
	pyrifolia (Burm.) Nakai	Japanese pear	suspensa	F
Quararibea (Bombacaceae)	asterolepis Pittier	guayabille	crebra	F
	cordata (Humb. & Bonpl.) Vischer	-	nunezae	F
	magnifica Pittier	aspay	sp. pickeli	F F
	pendulifera (St. Hil.) Schum.	virotinho	greenei quararibea	F F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Quararibea (con.)	penduliflora See Q. pendulifera			
	turbinata Poir.	virote	greenei pickeli quararibeae	F F F
Quiina (Quiinaceae)	glaziovii Engl.	mangue bravo	quiinae	F
Rheedia (Clusiaceae)	sp.	-	rheediae	F
	acuminata (Ruiz & Pavon) Pl. & Tr.	madruno	rheediae	F
	aristata Griseb.	-	suspensa	F
	braziliensis Pl. & Tr.	bacupari	rheediae	F
	macrophylla (Mart.) Pl. & Tr.	bacuri-pari	sp.	F
	madruno (H.B.K.) Pl. & Tr. See R. acuminata			
Rubus (Rosaceae)	sp.	blackberry	fraterculus suspensa	F F
	glaucus Benth.	mora	fraterculus	F
Sapota	achras Mill. See Manilkara zapota			
Sargentia (Rutaceae)	greggii Coult.	chapote amarillo yellow chapote	ludens	F
Schoepfia (Olacaceae)	chrysophylloides (Rich.) Planch.	gulf greytwig	interrupta	F
	schreberi Gmel.	-	interrupta	F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Severinia (Rutaceae)	buxifolia (Poir.) Tenore	box orange	suspensa	F
Sideroxylon	sapota (Jacq.) Moore & Stearn See Pouteria sapota tempisque Pittier See Mastichodendron capiri var. tempisque			
Solanum (Solanaceae)	sp.	tomatillo	sp.	F
	donnell-smithii Coult. See S. lancaifolium			
	hirtum Vahl	huevo de gato	sp.	Q
	lancaifolium Jacq.	Arano gato	distincta	L
	macranthum Dunal	cuernavaca	striata	F
	quitoense Lam.	-	fraterculus	F
Spondias (Anacardiaceae)	sp.	ameixa do Para	fraterculus	Q
	sp.	ciruelo	chiclayae schultzi	Q Q
	sp.	para plum	fraterculus	Q
	cirouella Tussac See S. purpurea			
	cytherea Sonn. See S. dulcis			
	dulcis Parkinson	caja jobo de India Otaheite apple	fraterculus obliqua suspensa	F F F
	lutea L. See S. mombin			

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Spondias (con.)	mombin L.	hog plum	antunesi	F
		jobo	fraterculus	F
		marapa	ludens	L
		mombin	obliqua	F
		Spanish plum	perdita	F
		tapereba	serpentina	L
			striata	F
			suspensa	F
	nigrescens Pittier See S. mombin			
	purpurea L.	caja	antunesi	F
		ciruela	chiclayae	Q
		jocote	fraterculus	F
		mombin	ludens	F
		red coat plum	obliqua	F
			serpentina	F
			striata	F
			suspensa	L
	tuberosa Koster	umbu	sp.	F
	venulosa Mart.	caja-mirim	obliqua	F
Sterculia (Sterculiaceae)	sp.	samuma	parallela	F
	apetala (Jacq.) Karst.	camoruco	balloui	F
Synsepalum (Sapotaceae)	dulcificum (Schum. & Thonn.) Daniell	miracle fruit	suspensa	F
Syzygium (Myrtaceae)	cumini (L.) Skells	Jambolan plum	suspensa	F
	jambos (L.) Alston	manzana rosa	fraterculus	F
		pomarrosa	ludens	F
		rose-apple	obliqua	F
			striata	F
			suspensa	F
	malaccense (L.) Merr. Perry	malay-apple	fraterculus	F
		pera de agua	obliqua	F
		pomagas	serpentina	L
			striata	F
			suspensa	F

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Syzygium (con.)	samarangense (Blume)	perita	sp.	F
	Merr. & Perry	water apple	suspensa	F
	uniflora L. See Eugenia uniflora			
Talisia (Sapindaceae)	olivaeformis (H.B.K.) Rad.	cotopriz	sp.	F
Terminalia (Combretaceae)	catappa L.	almendra	balloui	F
		almendron	fraterculus	F
		tropical almond	obliqua	L
			serpentina	L
			striata	F
			suspensa	F
	muelleri Benth.	-	suspensa	F
Tetrastylis	ovalis Vell. See Passiflora ovalis			
Theobroma (Sterculiaceae)	sp.	cacao	fraterculus	F
Thevetia (Apocynaceae)	neriifolia Steudel See T. peruviana			
	peruviana (Pers.) Schum.	-	obliqua	L
Trevesia (Araliaceae)	palmata Vis.	-	suspensa	F
Triphasia (Rutaceae)	trifolia (Burm. f.) Wils.	limeberry	suspensa	F
Turpinia (Staphylaceae)	occidentalis (Sw.) G. Don.	-	canalis	F
			fraterculus	F
			turpiniae	F
	paniculata Vent. See P. occidentalis			

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Hosts of Anastrepha by Host Genus and Species (con.)

<u>HOST GENUS</u> <u>(HOST FAMILY)</u>	<u>HOST SPECIES</u>	<u>HOST COMMON NAME</u>	<u>ANASTREPHA</u>	<u>R</u>
Vitis (Vitaceae)	vinifera L.	bunch grape grape	fraterculus obliqua	F L
Ximenia (Olacaceae)	americana L.	hog plum	fraterculus obliqua	F L
Zschokkea	panamensis See Lacmellea panamensis			
Zuelania (Flacourtiaceae)	guidonia (Sw.) Britt. & Millsp.	-	zuelaniae	F

LITERATURE CITED

- Aldrich, J. M. New Diptera or two winged flies in the United States National Museum. Proc. U.S. Natl. Mus. 66:1-36; 1925.
- Aluja, M.; Guillen, J.; Rosa, G. de la; Cabrera, M.; Celedonio, H.; Liedo, P.; Hendrichs, J. Natural host plant survey of the economically important fruit flies (Diptera: Tephritidae) of Chiapas, Mexico. Fla. Entomol. 70:329-338; 1987.
- Aluja, M.; Martinez, I. Manejo integrado de las moscas de la fruta (Diptera: Tephritidae). Programa Mosca del Mediterraneo, DGSV-SARH, D.F., Mexico; 1985.
- Baker, A. C.; Stone, W. E.; Plummer, C. C.; McPhail, M. A review of studies on the Mexican fruitfly and related Mexican species. U.S. Dep. Agric. Misc. Publ. 531:1-155; 1944.
- Ballou, C. H. Notas sobre insectos daninos observados en Venezuela: 1938-1943. III. Conf. Interam. Agric. (Caracas) 34:125; 1945.
- Bates, M. Insectos nocivos. Ann. Serv. Tech. Coop. Agric. Guatemala; 1932.
- Bezzi, M. Una nuova specie brasiliana del genere Anastrepha (Dipt.). Bol. Lab. Zool. Gen. Agric. (Portici) 13:3-14; 1919.
- Blanchard, E. E. Dipteros argentinos nuevos o poco conocidos. Rev. Soc. Entomol. Argent. 9:36-58; 1937.
- _____. Especies argentinas del genero Anastrepha Schiner (sens. lat.) (Diptera, Trypetidae). Rev. Invest. Agric. (Buenos Aires) 15:281-342; 1961.
- Boscan de Martinez, N.; Dedordy, J. R.; Requena, J. R. Current geographical distribution and host-fruits of Anastrepha spp. (Diptera: Trypetidae) in Venezuela. Agron. Trop. 30:55-63; 1980.
- Briceno, A. Distribucion de las moscas de las frutas (Anastrepha spp., Diptera: Tephritidae) y sus plantas hospederas en los Andes venezolanos. Rev. Fac. Agron. 3:45-49; 1975.
- _____. Las moscas de las frutas Anastrepha spp. (Diptera: Tephritidae), en los Andes venezolanos. Rev. Fac. Agron. 5:449-457; 1979.

- Bush, G. L. The cytotaxonomy of the larvae of some Mexican fruit flies in the genus Anastrepha (Tephritidae, Diptera). Psyche 69:87-101; 1962.
- Caraballo de Valdivieso, J. Las moscas de frutas del genero Anastrepha Schiner, 1868 (Diptera: Tephritidae) de Venezuela. Maracay, Venezuela: Universidad Central de Venezuela; 1981. M. S. Thesis.
- _____. Nuevas especies del genero Anastrepha Schiner, 1868 (Diptera: Tephritidae) de Venezuela. Bol. Entomol. Venez. 4:25-32; 1985.
- Crawford, D. L. Control of the orange maggot (Trypeta ludens). Mex. Gulf Coast Citrus Assoc. Circ. No. 1; 1913.
- _____. Investigation of Mexican fruit fly (Anastrepha ludens Loew) in Mexico. Calif. Dep. Agric. Mon. Bull. 16:422-445; 1927.
- Ebeling, W. Subtropical fruit pests. Berkeley: Univ. of California, Division of Agricultural Sciences; 1959.
- Emmart, E. W. The eggs of four species of fruit flies of the genus Anastrepha. Proc. Entomol. Soc. Wash. 35:184-191; 1933.
- _____. Studies of the chromosomes of Anastrepha (Diptera: Trypetidae). Proc. Entomol. Soc. Wash. 37:119-135; 1935.
- Eskafi, F. M.; Cunningham, R. T. Host plants of fruit flies (Diptera: Tephritidae) of economic importance in Guatemala. Fla. Entomol. 70:116-123; 1987.
- Fernandez de Araoz, D.; Nasca, A. J. Especies de Braconidae (Hymenoptera: Ichneumonoidea) parasitoides de moscas de las frutos (Diptera: Tephritidae) colectados en la provincia de Tucuman (Argentina). CIRPON 2:37-46; 1984.
- Fernandez Yepez, F. Contribucion al estudio de las moscas de las frutas del genero Anastrepha Schiner (Diptera: Trypetidae) de Venezuela. II. Congr. Cien. Nat. Afin. (Caracas) 7:5-42; 1953.
- Fischer, C. R. Nota taxonomica e biologica sobre Anastrepha grandis Macq. (Dipt. Trypetidae). Rev. Entomol. 2:302-310; 1932.

- _____. Variacao das cerdas frontages e outras notas sobre duas especies de Anastrepha (Dipt. Trypetidae). Rev. Entomol. 4:17-22; 1934.
- Foot, R. H. Notes on the Walker types of New World Tephritidae (Diptera). J. Kans. Entomol. Soc. 37:316-326; 1964.
- Greene, C. T. Characters of the larvae and pupae of certain fruit flies. J. Agric. Res. 38:489-504; 1929.
- _____. A revision of the genus Anastrepha based on a study of the wings and on the length of the ovipositor sheath (Diptera: Trypetidae). Proc. Entomol. Soc. Wash. 36:127-179; 1934.
- Guagliumi, P. Insetti e Aracnidi delle piante comuni del Venezuela segnalati nel periodo 1938-1963. Rel. Monogr. Agric. Subtrop. Trop. (Inst. Agron. L'Oltremare, Firenze) (n.s.) 86:1-391; 1966.
- Hayward, K. J. Insectos tucumanos perjudiciales. Rev. Ind. Agric. (Tucuman) 42:1-144; 1960.
- Hedstrom, I. Fruit flies (Diptera: Tephritidae) infesting common guava (Psidium guajava L.) (Myrtaceae) in Ecuador. Rev. Biol. Trop. 35:373-374; 1987.
- Herrera, A. L. The orange worm (Trypeta ludens). J. Econ. Entomol. 1:169-174; 1908.
- Herrera, A.L.; Rangel, A. F.; Barreda, L. de la. El gusano de la fruta (Instrypetas ludens I.D.B.). Bol. Com. Parasitol. Agric. 1:1-28; 1900.
- Ibrahim, R. B. Fruit flies of Florida (Diptera: Tephritidae). Gainesville, Florida: Univ. of Florida; 1980. Ph. D. Dissertation.
- Ihering, H. von. Rev. Agric. (Sao Paulo) 6:180; 1901.
- Isaac, J. Report on the Mexican orange worm (Trypeta ludens) in Mexico. Cooper, E. Report of the Commissioner, Calif. State Hortic. Comm.; 1905.
- Jiron, L. F.; Hedstrom, I. Occurrence of fruit flies of the genera Anastrepha and Ceratitis (Diptera; Tephritidae), and their host plant availability in Costa Rica. Fla. Entomol. 71:62-73; 1988.

- Jiron, L. F.; Zeledon, R. El genero Anastrepha (Diptera: Tephritidae) en las principales frutas de Costa Rica y su relacion con pseudomiasis humana. Rev. Trop. Biol. 27:155-161; 1979.
- Kisliuk, M., Jr.; Cooley, C. E. Fruit-fly survey in the West Indies, Brazil, Uruguay, Chile, and Peru. U.S. Dep. Agric., Bur. Plant Quar. Serv. Regul. Announce. 116:227-241; 1933.
- Korytkowski, C. Una nueva especie del genero Anastrepha Schiner (Diptera: Tephritidae). Rev. Peru. Entomol. (Lima) 17:1-3; 1974.
- Korytkowski, C.; Ojeda Pena, D. Especies del genero Anastrepha Schiner 1868 en el nor-oeste Peruano. Rev. Peru. Entomol. (Lima) 11:32-70; 1968.
- _____. Distribucion ecologia de especies del genero Anastrepha Schiner en el nor-oeste Peruano. Rev. Peru. Entomol. 12:71-95; 1969.
- Landolt, P. J. Behavior of the papaya fruit fly Toxotrypana curvicauda Gerstaecker (Diptera: Tephritidae) in relation to its host plant, Carica papaya L. Fol. Entomol. Mex. 61:215-224; 1984.
- Lima, A. da Costa. Sobre insectos que vivem em maracujas (Passiflora sp.). Mem. Inst. Oswaldo Cruz 23:159-162; 1930a.
- _____. Sobre as moscas de frutas que vivem no Brasil. Chacaras e Quintaes 34:21-24; 1930b.
- _____. Moscas de frutas do genero Anastrepha Schiner, 1868 (Diptera: Trypetidae). Mem. Inst. Oswaldo Cruz 28:487-575; 1934.
- _____. Novas moscas de frutas do genero Anastrepha (Diptera: Trypetidae). O Campo 8:34-38, 60-64; 1937.
- _____. Novas moscas de frutas do genero "Anastrepha" (Diptera: Trypetidae) (conclusao). O Campo 9:61-64; 1938a.
- _____. Sobre uma nova especie de Anastrepha da Bahia (Diptera: Trypetidae). O Campo 9:16; 1938b.
- Lutz, A.; Lima, A. da Costa. Contribuicao para o estudo das Tripaneidas (moscas de frutas) brasileiras. Mem. Inst. Oswaldo Cruz 10:4-16; 1918.

- Malavasi, A.; Morgante, J. S.; Zucchi, R. A. Biología de "moscas-das-frutas" (Diptera, Tephritidae). I. Lista de hospedeiros e ocorrência. Rev. Bras. Biol. 40:9-16; 1980.
- Martorell, L. F. Insects observed in the state of Aragua, Venezuela, South America. J. Agric. Univ. P. R. (Rio Piedras) 23:219; 1939.
- McAlister, L. C., Jr. Observations on the West Indian fruit fly at Key West in 1932-33. J. Econ. Entomol. 29:440-445; 1936.
- McClanahan, H. S. Report of the Grove Inspection Department. Fla. State Plant Bd., Bienn. Rep. 18:41-46; 1951.
- McPhail, M.; Berry, N. O. Observations on Anastrepha pallens (Coq.) reared from wild fruits in the lower Rio Grande Valley of Texas during the spring of 1932. J. Econ. Entomol. 29:405-410; 1936.
- McPhail, M.; Bliss, C. I. Observations on the Mexican fruit fly and some related species in Cuernavaca, Mexico, in 1928 and 1929. U.S. Dep. Agric. Circ. 255:1-24; 1933.
- Mena, J. A. Algunas de las principales plagas de los frutales. Agric. El Salvador 6:13-15; 1965.
- Nunez Bueno, L. Contribucion al reconocimiento de las moscas de las frutas (Diptera: Tephritidae) en Colombia. Rev. ICA (Bogota) 16:173-179; 1981.
- Olarte, W. E. Dinamica poblacional del complejo constituido por las moscas de las frutas Anastrepha striata y Anastrepha fraterculus en el medio ecologico del sur de Santander. Bucaramanga, Colombia: Univ. Industrial de Santander; 1980.
- Pena, J. E.; Bellotti, A. C. Estudios sobre las moscas del tallo y fruto de yuca: Anastrepha pickeli y Anastrepha manihoti. Rev. Colomb. Entomol. 3:79-86; 1977.
- Phillips, V. T. The biology and identification of trypetid larvae (Diptera: Trypetidae). Mem. Am. Entomol. Soc. 12:1-161; 1946.
- Picado, C. Historia del gusano de la guayaba. Publ. Coleg. Senoritas Ser. A, 2:1-28; 1920.

- Pierce, W. D., editor. A manual of dangerous insects likely to be introduced in the United States through importations. Washington, DC: U.S. Department of Agriculture, Bureau of Entomology; 1918.
- Plummer, C. C.; McPhail, M. The yellow chapote, a native host of the Mexican fruitfly. U.S. Dep. Agric. Tech. Bull. 775:1-12; 1941.
- Quayle, H. J. Insects of citrus and other subtropical fruits. Ithaca, New York: Comstock Publ. Co.; 1938.
- Rosillo, M. A. Resultados preliminares de un estudio bio-ecologico de los dipteros Trypetidae del noroeste argentino. Rev. Invest. Agric. (Buenos Aires) 7:97-130; 1953.
- Rust, E. W. Anastrepha fraterculus Wied. (Trypetidae) - a severe menace to the southern United States. J. Econ. Entomol. 11:457-467; 1918.
- Sein, F. Anastrepha (Trypetidae, Diptera) fruit flies in Puerto Rico. J. Dep. Agric. P. R. 17:183-196; 1933.
- Seymour, C. P. Federal-State plant protection programs. Tri-ology (Entomol.) 6:6; 1967.
- Shaw, J. G. Hosts and distribution of Anastrepha serpentina in northeastern Mexico. J. Econ. Entomol. 40:34-40; 1947.
- Steyskal, G. C. Two new Neotropical fruitflies of the genus Anastrepha, with notes on generic synonymy (Diptera, Tephritidae). Proc. Entomol. Soc. Wash. 79:75-81; 1977.
- Stone, A. A new genus of Tephritidae near Anastrepha (Diptera). J. Wash. Acad. Sci. 29:340-350; 1939a.
- _____. A revision of the genus Pseudodacus Hendel (Dipt. Trypetidae). Rev. Entomol. 10:282-289; 1939b.
- _____. The fruitflies of the genus Anastrepha. U.S. Dep. Agric. Misc. Publ. 439:1-112; 1942a.
- _____. New species of Anastrepha and notes on others (Diptera, Tephritidae). J. Wash. Acad. Sci. 32:298-304; 1942b.
- Swanson, R. W.; Baranowski, R. M. Host range and infestation by the Caribbean fruit fly, Anastrepha suspensa (Diptera: Tephritidae), in south Florida. Proc. Fla. State Hortic. Soc. 85:271-274; 1972.

- Terrell, E. E.; Hill, S. R.; Wiersema, J. H.; Rice, W. E.
A checklist of names for 3,000 vascular plants of economic importance. U.S. Dep. Agric., Agric. Handb. 505; 1986.
- Townsend, C. H. T. The Peruvian fruit fly (Anastrepha peruviana n. sp.). J. Econ. Entomol. 6:345-346; 1913.
- U.S. Department of Agriculture. Coop. Econ. Insect Rep. 16:32, 83, 225, 469, 498, 525, 556, 589, 652, 683, 712, 738, 818, 888, 980, 1118, 1158; 1966.
- _____. Host list of Caribbean fruit fly. U.S. Dep. Agric. Rep. Plant Pest Control Div., Winterhaven, Fla.; 1967a: 1-2.
- _____. U.S. Dep. Agric. Coop. Econ. Insect Rep. 17:33, 118, 156, 449, 522, 549, 689, 716, 743, 840; 1967b.
- _____. U.S. Dep. Agric. Coop. Econ. Insect Rep. 18:54, 153, 260, 365, 452; 1968.
- Wasbauer, M. S. Recognition of fruit flies likely to be encountered in Mexican fruit fly traps in Southern California. Calif. Dep. Agric. T-10:1-8; 1964.
- _____. An annotated host catalog of the fruit flies of America north of Mexico (Diptera: Tephritidae). Occas. Pap. Calif. Dep. Agric. Bur. Entomol. 19:1-172; 1972.
- Weems, H. V., Jr. Anastrepha suspensa (Loew) (Diptera: Tephritidae). Fla. Dep. Agric. Entomol. Circ. 38:1-4; 1965.
- _____. Anastrepha interrupta Stone (Diptera: Tephritidae). Fla. Dep. Agric. Bur. Entomol. Circ. 61:1-2; 1967.
- _____. Anastrepha ocrexia (Walker) (Diptera: Tephritidae). Fla. Dep. Agric. Bur. Entomol. Circ. 71:1-2; 1968.
- _____. Anastrepha serpentina (Wiedemann) (Diptera: Tephritidae). Fla. Dep. Agric. Bur. Entomol. Circ. 91:1-2; 1969.
- _____. West Indian fruit fly Anastrepha mombinpraeoptans Sein (Diptera: Tephritidae). Fla. Dep. Agric. Bur. Entomol. Circ. 101:1-2; 1970.
- Whervin, L. W. van. Some fruitflies (Tephritidae) in Jamaica. Pans 20:11-19; 1974.
- Windeguth, D. L. von; Pierce, W. H.; Steiner, L. F. Infestations of Anastrepha suspensa in fruit on Key West, Florida and adjacent islands. Fla. Entomol. 56:127-131; 1972.

Zucchi, R. A. Taxonomia das especies de Anastrepha Schiner, 1868 (Diptera, Tephritidae) assinaladas no Brasil. Piracicaba, Brasil: Escola Superior de Agricultura "Luiz de Queiroz," da Univ. de Sao Paulo, Piracicaba; 1978. Ph. D. Dissertation.

